



ASSOCIAZIONE ITALIANA
di FISICA MEDICA e SANITARIA



12°

Congresso Nazionale

AIFM2023

GUARDARE LONTANO

Firenze

www.aifm2023.org

FIRENZE • 8-11 giugno 2023

Palazzo dei Congressi

Programma





Benvenuti a Firenze



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PATROCINI

(elenco aggiornato al 27 aprile 2023)

REGIONE
TOSCANA



UNIVERSITÀ
DEGLI STUDI
FIRENZE



UNIVERSITÀ
DI PISA



Consiglio Nazionale
delle Ricerche



AMERICAN ASSOCIATION
of PHYSICISTS IN MEDICINE



Associazione Italiana di Medicina Nucleare
di Tiziana Michelini



Associazione Italiana di
Radioprotezione Medica



Associazione Italiana
Radiologica e Oncologica (A.I.R.O.)



FEDERAZIONE NAZIONALE
DEGLI ORDINI
DEI CHIMICI E DEI FISICI



Istituto Nazionale di Fisica Nucleare



Società Italiana
di Fisica



Società Italiana di
Radiologia Medica
e Interventistica

PROGRAMMA SINOTTICO

Giovedì 8 giugno 2023

Orari			Orari
12.00 - 13.00	Palazzo dei Congressi	AIFM Giovani	12.00 - 13.00
13.00 - 16.00	Palazzo dei Congressi	Riunione Gruppi di Lavoro	13.00 - 16.00
16.30 - 18.30	Palazzo Vecchio	Inaugurazione del Congresso	16.30 - 18.30
19.00 - 21.00	Palazzo dei Congressi	<i>Cocktail di benvenuto</i>	19.00 - 21.00

Venerdì 9 giugno 2023 • Palazzo dei Congressi

	Auditorium	Sala Verde	Sala Onice	Sala 4	
<i>Orari</i>	Area 1 • Sessione di Terapia	Area 2 • Sessione di Imaging	Area 3 • Sessione Multidisciplinare e Nuovi Ambiti	Area 4 • Sessione di Radioprotezione e Sicurezza dei Lavoratori e dei Pazienti	<i>Orari</i>
8.00 - 8.45	Corso di Aggiornamento Stato dell'arte e prospettive future delle verifiche singolo paziente alla luce del D.Lgs. 101/2020. <i>A. Scaggion</i>	Corso di Aggiornamento TC: stato dell'arte, metriche sulla qualità dell'immagine e sviluppi futuri. <i>E. Samei</i>	Corso di Aggiornamento Metodi di registrazione deformabile: CQ del software e verifica della correttezza della fusione. <i>G. Loi</i>	Corso di Aggiornamento Decommissioning degli acceleratori lineari per radioterapia esterna e dei ciclotroni. <i>A. Brusa</i>	8.00 - 8.45
8.45 - 9.15	Pro e Contro Radioterapia Presente e futuro dei sistemi di automazione del trattamento radioterapico: corrente che ritiene vincenti le tecniche KB VERSUS, corrente che ritiene vincenti le tecniche basate sull'ottimizzazione. <i>R. Castriconi, C. Fiorino</i> <i>versus</i> <i>S. L. Marrazzo, B. Heijmen</i>	Relazione ad Invito RM quantitativa nella pratica clinica: il punto di vista di un fisico. <i>L. Mazzoni</i>	Relazione ad Invito Rischio clinico in ambito diagnostico correlato alla riduzione di dose e alla non diagnosi. <i>F. Ria</i>	Relazione ad Invito Le emergenze radiologiche: un vero problema? <i>G. Poli</i>	8.45 - 9.15
9.15 - 9.45		Relazione ad Invito Tecniche di valutazione della dose al paziente in angiografia. <i>M. Felisi</i>	Relazione ad Invito Spectral CT, photocounting e caratterizzazione tissutale: stato dell'arte e applicazioni cliniche. <i>O. Rampado</i>	Relazione ad Invito Radioprotezione del lavoratore: quali evoluzioni sono previste nelle pubblicazioni ICRP? <i>R. Werner</i>	9.15 - 9.45
9.45 - 10.15	Relazione ad Invito Radioterapia guidata da immagini RM: stato dell'arte e prospettive future. <i>D. Cusumano</i>	Relazione ad Invito Virtual Clinical Trial and Synthetic Data. <i>E. Samei</i>	Relazione ad Invito "Digital Pathology": stato dell'arte e prospettive future. <i>M. Iori</i>	Relazione ad Invito Radioprotezione del paziente nell'imaging ricorrente: dove dobbiamo andare? <i>M. Brambilla</i>	9.45 - 10.15

Venerdì 9 giugno 2023 • Palazzo dei Congressi

	Auditorium	Sala Verde	Sala Onice	Sala 4	
Orari	Area 1 • Sessione di Terapia	Area 2 • Sessione di Imaging	Area 3 • Sessione Multidisciplinare e Nuovi Ambiti	Area 4 • Sessione di Radioprotezione e Sicurezza dei Lavoratori e dei Pazienti	Orari
10.15 - 11.15	Tavola Rotonda La radioprotezione tra sfide e opportunità.				10.15 - 11.15
11.15 - 11.45	Comunicazioni Orali	Comunicazioni Orali	Comunicazioni Orali	Relazione ad Invito Review dei metodi e dei software per la valutazione di dose al paziente e al feto. V. Cannatà	11.15 - 11.45
11.45 - 12.30				Comunicazioni Orali	11.45 - 12.30
12.30 - 13.15	Simposi satellite nelle sale: Auditorium • Sala Verde • Sala Onice • Sala 4 • Sala 9 • Sala 101 (dettaglio a pag. 53)				12.30 - 13.15
13.15 - 14.00	Pausa pranzo				13.15 - 14.00
14.00 - 14.30	Relazione ad Invito Software di autocontouring: come verificarli e usarli nella pratica. M. Casati	Relazione ad Invito Stato dell'arte delle tecniche mammografiche. V. Ravaglia	Relazione ad Invito Affidabilità e riproducibilità delle features radiomiche: standardizzazione e armonizzazione. A. Traverso	Relazione ad Invito Gestione dell'allontanamento dei rifiuti radioattivi e stima della dose all'individuo rappresentativo a seguito dell'immissione in atmosfera e in acque superficiali. C. Traino	14.00 - 14.30
14.30 - 15.30	Esposizione Fiera del Fai da Te e Poster - Palazzo degli Affari				14.30 - 15.30
15.30 - 16.30	Tavola Rotonda Ambiente e salute.				15.30 - 16.30
16.30 - 17.30	Comunicazioni Orali	Tavola Rotonda Ammodernamento tecnologico in Sanità: una sfida sostenibile.	Comunicazioni Orali	Comunicazioni Orali	16.30 - 17.30
17.30 - 18.00	Comunicazioni Orali	Comunicazioni Orali	Comunicazioni Orali	Comunicazioni Orali	17.30 - 18.00
18.00 - 19.00	Esposizione Fiera del Fai da Te e Poster • Aperitivo - Palazzo degli Affari				18.00 - 19.00

Sabato 10 giugno 2023 • Palazzo dei Congressi

	Auditorium	Sala Verde	Sala Onice	Sala 4	
<i>Orari</i>	Area 1 • Sessione di Terapia	Area 2 • Sessione di Imaging	Area 3 • Sessione Multidisciplinare e Nuovi Ambiti	Area 4 • Sessione di Didattica e Formazione	<i>Orari</i>
8.00 - 8.45	Corso di Aggiornamento Dalla dose media alla biological voxel dosimetry: software e modelli di calcolo. <i>L. Strigari</i>	Corso di Aggiornamento QA nelle tecniche avanzate di RM. <i>L. Altabella</i>	Corso di Aggiornamento Flash therapy: stato dell'arte e prospettive future. <i>F. Romano</i>	Corso di Aggiornamento Modalità innovative per la formazione: MOOC, Open Access e OER. <i>M. R. Guelfi</i>	8.00 - 8.45
8.45 - 9.15	Relazione ad Invito Audit Dosimetrico in Radioterapia: l'esperienza italiana. <i>S. Russo</i>	Relazione ad Invito Rivelatori impiegati in Medicina Nucleare e PET total body: stato dell'arte e innovazione tecnologica. <i>A. Zorz</i>	Relazione ad Invito Quale futuro per la risonanza magnetica? <i>G. Belli</i>	Relazione ad Invito Distanza in presenza, prossimità online: demolizione di una dicotomia. <i>A. Formiconi</i>	8.45 - 9.15
9.15 - 10.00	Esposizione Fiera del Fai da Te e Poster - Palazzo degli Affari				9.15 - 10.00
10.00 - 11.00	Tavola Rotonda Esposizioni mediche.				10.00 - 11.00
11.00 - 12.15	Comunicazioni Orali	Comunicazioni Orali	Comunicazioni Orali	Relazione ad Invito Scuola Caldirola, European School of Medical Physics Expert di EFOMP. Corsi ICTP per la fisica medica nel mondo. <i>A. Trianni - A. Torresin R. Padovani</i>	11.00 - 12.15
12.15 - 13.00	Simposi satellite nelle sale: Auditorium • Sala Verde • Sala Onice • Sala 4 • Sala 101 (dettaglio a pag. 53)				12.15 - 13.00
13.00 - 13.30	Pausa pranzo				13.00 - 13.30
13.30 - 14.00	Relazione ad Invito La qualità di un piano in Radioterapia. <i>M. Fusella</i>	Tavola Rotonda Scuole di Specializzazione e Lauree abilitanti. (orario 13.30 - 14.30)	Relazione ad Invito Lu177: radiofarmaci innovativi mirati ad una terapia personalizzata? <i>A. Sarnelli</i>	Gruppo di Lavoro Futurus e AI	13.30 - 14.00

Sabato 10 giugno 2023 • Palazzo dei Congressi

	Auditorium	Sala Verde	Sala Onice	Sala 4	
Orari	Area 1 • Sessione di Terapia	Area 2 • Sessione di Imaging	Area 3 • Sessione Multidisciplinare e Nuovi Ambiti	Area 4 • Sessione di Didattica e Formazione	Orari
14.00 - 14.30	Relazione ad Invito Radioterapia con protoni: applicabilità e prospettive future. <i>M. Schwarz</i>	Tavola Rotonda Scuole di Specializzazione e Lauree abilitanti. (orario 13.30 - 14.30)	Relazione ad Invito Le applicazioni della luce in medicina: prospettive future e ruolo del fisico medico. <i>F. Frigerio</i>	Relazione ad Invito Come scrivere un progetto di ricerca. <i>C. Fiorino</i>	14.00 - 14.30
14.30 - 15.30	Comunicazioni Orali	Comunicazioni Orali	Comunicazioni Orali	Relazione ad Invito Come stilare un curriculum vitae ed impostare un lavoro scientifico. <i>P. Russo</i>	14.30 - 15.30
15.30 - 16.00	Pro e Contro Implementazione dell'esposizione nel referto: classe di dose o parametri di esposizione? Corrente che ritiene debba essere inserita la classe di dose VERSUS corrente che ritiene debbano essere inseriti i parametri espositivi. <i>D. Origgi, F. Levrero</i> <i>versus</i> <i>M. Brambilla, M. Stasi</i>	Tavola Rotonda Ricerca ed innovazione in Fisica Medica.	Relazione ad Invito MRI-LINAC: quali esperienze e quali prospettive? <i>L. Placidi</i>	Comunicazioni Orali	15.30 - 16.00
16.00 - 16.30			Relazione ad Invito Flash-therapy con elettroni: l'esperienza di Pisa. <i>F. Di Martino</i>		16.00 - 16.30
16.30 - 17.30	Comunicazioni Orali	Comunicazioni Orali	Comunicazioni Orali	Gruppi di Lavoro Report: Diagnostica	16.30 - 17.30
17.30 - 18.30	Assemblea Soci				17.30 - 18.30
19.30 - 24.00	Cena Sociale - Museo degli Innocenti				19.30 - 24.00

Domenica 11 giugno 2023 • Palazzo dei Congressi					
	Auditorium	Sala Verde	Sala Onice	Sala 4	
Orari	Area 1 • Sessione di Terapia	Area 2 • Sessione di Imaging	Area 3 • Sessione Multidisciplinare e Nuovi Ambiti	Area 4 • Sessione Professionale	Orari
8.30 - 9.00	Corso di Aggiornamento Gestione del movimento respiratorio in radioterapia: soluzioni, sfide e prospettive. C. Garibaldi	Corso di Aggiornamento I sistemi di monitoraggio della dose come strumento dello Specialista in Fisica Medica per adempiere agli obblighi del D.Lgs.101/2022. P. E. Colombo	Corso di Aggiornamento Corso base di machine learning ed AI. A. Retico	AIFM Giovani	8.30 - 9.00
9.00 - 9.30					9.00 - 9.30
9.30 - 10.30	Pro e Contro Siamo pronti ad integrare le tecnologie AI nella pratica clinica? Meglio privilegiare le performances o l'interpretabilità? M. Avanzo, A. Barucci <i>versus</i> T. Rancati, A. Traverso	Comunicazioni Orali	Comunicazioni Orali	Tavola Rotonda Competenze ed aggiornamento professionale nell'era degli ordini.	9.30 - 10.30
10.30 - 11.30	Relazione ad Invito Re-igniting the Role of Medical Physics. R. Jeraj	Comunicazioni Orali	Gruppi di Lavoro Report: Terapia	Comunicazioni Orali	10.30 - 11.30
11.30 - 12.30	Comunicazioni Orali	Comunicazioni Orali	Comunicazioni Orali	Comunicazioni Orali	11.30 - 12.30
12.30 - 13.00	Premiazione, Proclamazione degli Eletti e Chiusura del Congresso				12.30 - 13.00

MOMENTI INTERATTIVI E CONVIVALI

Giovedì 8 giugno 2023

Palazzo Vecchio

16.30 Inaugurazione del Congresso

Palazzo dei Congressi

19.00 Cocktail di Benvenuto

Venerdì 9 giugno 2023

Palazzo dei Congressi

10.15
11.15 Escape Room

Palazzo dei Congressi

15.30
16.30 Escape Room

Palazzo degli Affari

18.00 Cocktail durante l'esposizione Poster e Fiera del Fai da Te

Sabato 10 giugno 2023

Palazzo dei Congressi

10.00
11.00 Escape Room

Auditorium

17.30 Assemblea dei Soci

Museo degli innocenti

19.30 Cena Sociale

PROGRAMMA SCIENTIFICO

Giovedì 8 giugno 2023

PALAZZO DEI CONGRESSI

12.00 **AIFM Giovani**

PALAZZO DEI CONGRESSI

13.00 **Riunioni Gruppi di lavoro**

PALAZZO VECCHIO

16.30 **Inaugurazione del Congresso**

PALAZZO DEI CONGRESSI

19.00 **Cocktail di benvenuto**

Venerdì 9 giugno 2023

AUDITORIUM **Sessione di Terapia**

- 8.00 **Corso di Aggiornamento** • Moderatore: L. Masi, Firenze
Stato dell'arte e prospettive future delle verifiche singolo paziente alla luce del D. Lgs. 101.
A. Scaggion, Padova
- 8.45 **Pro e Contro Radioterapia** • Moderatori: L. Masi - S. Pallotta, Firenze
Presente e futuro dei sistemi di automazione del trattamento radioterapico: corrente ritiene
che le tecniche KB siano vincenti VERSUS corrente ritiene che siano vincenti le tecniche
basate sull'ottimizzazione. R. Castriconi - C. Fiorino, Milano *versus* L. Marrazzo, Firenze
B. Hejman, Rotterdam
- 9.45 **Relazione ad invito** • Moderatori: V. Ferrero, Torino - S. Marzi, Roma
Radioterapia guidata da immagini RM: stato dell'arte e prospettive future.
D. Cusumano, Olbia
- 10.15 **Tavola Rotonda**
La radioprotezione tra sfide e opportunità.
- Sessione di Comunicazioni Orali** • Moderatori: D. Cusumano, Olbia - A. Vaiano, Firenze
- 11.15 ID 172 • DOSIMETRY AND MONITORING OF UHDR BEAMS WITH SILICON CARBIDE DETECTORS FOR FLASH
RADIOTHERAPY
G. Milluzzo, Catania

- 11.25 ID 258 • IMPROVING PLAN QUALITY AND STREAMLINING THE RADIOTHERAPY WORKFLOW WITH MACHINE LEARNING AND LEAN SIX SIGMA METHODOLOGY
N. Lambri, Rozzano (MI)
- 11.35 ID 11 • REAL-TIME EXPECTED DOSE DVH FOR CARBON ION THERAPY
C. Galeone, Darmstadt, Germany
- 11.45 ID 412 • 1.5 T MR-LINAC ADAPTIVE RADIOTHERAPY: PREDICTIVE MODEL BASED ON COMPLEXITY METRIC TO CLASSIFY THE DELIVERY ACCURACY OF THE DAILY ADAPTED PLANS
S. Naccarato, Negrar di Valpolicella (VR)
- 11.55 ID 314 • PATIENT-SPECIFIC QA OF STEREOTACTIC PARTIAL BREAST IRRADIATIONS WITH GAMMAPOD SYSTEM: ONE-YEAR EXPERIENCE OF THE UDINE HOSPITAL
E. Moretti, Udine
- 12.05 ID 91 • A FIRST PILOT EXPERIMENT FOR REPEATABILITY OF VOXEL-BASED ANALYSIS PIPELINE IN RADIATION ONCOLOGY
L. Cella, Napoli
- 12.15 ID 304 • MYART: A QUALITY ASSURANCE PROGRAM FOR MONITORING THE COMPLEXITY AND DELIVERY ERRORS OF ON-LINE-ADAPTED RADIOTHERAPY TREATMENT PLANS
F. Dusi, Padova

12.30 **Simposio satellite**

13.15 **Pausa pranzo**

- 14.00 **Relazione ad invito** • Moderatori: *F. Foppiano, Firenze - G. Loi, Novara*
Software di autocontouring: come verificarli e usarli nella pratica.
M. Casati, Firenze

15.30 **Tavola Rotonda** Ambiente e Salute.

Sessione di Comunicazioni Orali • Moderatori: *R. Castriconi, Milano - E. Vanzi, Siena*

- 16.30 ID 28 • IBA MYQA® SRS DETECTOR FOR CYBERKNIFE INTRACRANIAL RADIOSURGERY QUALITY ASSURANCE
F. Padelli, Milano
- 16.35 ID 242 • MULTI-CENTER VALIDATION OF AN AUTOMATIC PLANNING TOOL FOR LOWER-EXTREMITIES TMI AND TBI
P. Mancosu, Milano
- 16.40 ID 132 • COMPLEXITY METRICS AS DECISION-SUPPORT TOOLS FOR PSQA OF HELICAL TOMOTHERAPY AND VMAT PLANS
S. Cavinato, Padova
- 16.45 ID 392 • APPLICATION OF FAILURE MODE AND EFFECT ANALYSIS APPROACH (FMEA) ON ELEKTA UNITY MR-LINAC
S. Nici, Brescia
- 16.50 ID 1 • DETERMINATION OF ANGULAR RESPONSE OF A SINGLE CRYSTAL DIAMOND DETECTOR IN VERY HIGH DOSE-PER-PULSE IORT ELECTRON BEAMS
E. Mastella, Ferrara
- 16.55 ID 24 • TRANSFERABILITY OF KNOWLEDGE-BASED PLAN PREDICTION MODELS: A STEP FORWARD TOWARD BENCHMARK FOR BREAST RADIOTHERAPY
A. Tudda, Milano

- 17.00 ID 63 • DEEP LEARNING APPROACH TO GENERATE SYNTHETIC CT FROM CBCT IN ONLINE ADAPTIVE RADIOTHERAPY IN PELVIS
S. Menna, Olbia
- 17.05 ID 118 • EXTERNAL VALIDATION OF AN 18F-FDG-PET RADIOMIC MODEL PREDICTING CANCER-SPECIFIC SURVIVAL AFTER RADIOTHERAPY FOR OROPHARYNGEAL CANCER
C. Fiorino, Milano
- 17.10 ID 180 • MONTE CARLO SIMULATIONS AND EXPERIMENTAL EVALUATION OF THE ELECTRON RETURN EFFECT FOR THE MR-LINAC IN PRESENCE AND ABSENCE OF TISSUE INTERFACES
F. Tortorelli, Roma
- 17.15 ID 240 • SENSITIVITY EVALUATION OF A COMMERCIAL BACK-PROJECTION EPID IN-VIVO DOSIMETRY SYSTEM FOR LUNG TREATMENTS
R. Baldoni, Firenze

Sessione di Comunicazioni Orali • Moderatori: *S. Cargnel, Venezia - G. Loi, Novara*

- 17.30 ID 357 • DOSIMETRIC AND IMAGE QUALITY PERFORMANCES OF THE INFN PROTON CT SYSTEM
E. Fogazzi, Trento
- 17.40 ID 149 • VHEE CONVENTIONAL AND FLASH TREATMENT PLANNING: THE CASE OF CHORDOMA AND MENINGIOMA LESIONS
A. Muscato, Roma
- 17.50 ID 256 • STEREOTACTIC ARRHYTHMIA RADIOABLATION OF PAROXYSMAL ATRIAL FIBRILLATION: STATE OF ART AND FUTURE DIRECTION
I. Bonaparte, Bari

SALA VERDE Sessione di Imaging

- 8.00 **Corso di Aggiornamento** • Moderatore: *C. Cavedon, Verona*
TC: stato dell'arte, metriche sulla qualità dell'immagine e sviluppi futuri.
E. Samei, Durham (USA)
- 8.45 **Relazione ad invito** - Moderatori: *G. Belli, Firenze - L. Nocetti, Modena*
RM quantitativa nella pratica clinica: il punto di vista di un fisico.
L. Mazzoni, Pistoia
- 9.15 **Relazione ad invito** - Moderatori: *C. Cavedon, Verona - F. Calderoni, Ferrara*
Tecniche di valutazione della dose al paziente in angiografia.
M. Felisi, Milano
- 9.45 **Relazione ad invito** - Moderatori: *C. Cavedon, Verona - P. Russo, Napoli*
Virtual Clinical Trial and Synthetic Data.
E. Samei, Durham (USA)

Sessione di Comunicazioni Orali • Moderatori: *D. Origgi, Milano - M. Parisotto, Ancona*

- 11.15 ID 55 • LUNG DUAL ENERGY CT: IMPACT OF DIFFERENT TECHNOLOGICAL APPROACHES ON QUANTITATIVE ANALYSIS
O. Ortenzia, Parma

- 11.25 ID 47 • HOW TO EVALUATE THE LOW CONTRAST DETECTABILITY PERFORMANCE OF ANGIOGRAPHY SYSTEMS USING A CHANNELISED HOTELLING OBSERVER (CHO): AN AIFM MULTICENTRIC STUDY
M. Bertolini, Reggio Emilia
- 11.35 ID 283 • AUTOMATIC SEGMENTATION TECHNIQUES FOR CORTICAL GRAY AND WHITE MATTER SEGMENTATION IN CT BRAIN IMAGING
G. Belli, Firenze
- 11.45 ID 160 • CT EXAMINATION DOSE CLASSES: HOW FAR FROM THE STANDARD?
A. Mazzini, Padova
- 11.55 ID 198 • INNOVATIVE SCANNING PROTOCOL FOR IMAGE QUALITY ENHANCEMENT IN CONE BEAM COMPUTED TOMOGRAPHY
I. Vanore, Napoli
- 12.05 ID 348 • LOW-CONTRAST SIGNAL DETECTION IN CT PHANTOM'S AND CLINICAL IMAGES BASED ON VORONOI TESSELLATION
E. Cantoni, Firenze
- 12.15 ID 143 • FIRST NATIONAL SURVEY FOR THE DEFINITION OF ITALIAN DIAGNOSTIC REFERENCE LEVELS FOR PAEDIATRIC INTERVENTIONAL RADIOLOGY
F. De Monte, Padova
- 12.30 **Simposio satellite**
- 13.15 **Pausa pranzo**
- 14.00 **Relazione ad invito** • Moderatori: *A. Maldera, Barletta - P. Russo, Napoli*
Stato dell'arte delle tecniche mammografiche.
V. Ravaglia, Ravenna
- 16.30 **Tavola Rotonda**
Ammodernamento tecnologico in Sanità: una sfida sostenibile.
- Sessione di Comunicazioni Orali** • Moderatori: *L. Placidi, Roma - M. Zani, Firenze*
- 17.30 ID 54 • COMPARING ML PERFORMANCES OF LATE TOXICITY PREDICTIVE MODELS ON A LARGE COHORT OF PATIENTS TREATED WITH WHOLE BREAST RADIOTHERAPY
M. G. Ubeira-Gabellini, Milano
- 17.40 ID 255 • ADAPTIVE PATIENT PRE-ALIGNMENT MAY IMPROVE CLINICAL WORKFLOW IN IMAGE-GUIDED PEDIATRIC PARTICLE THERAPY
M. Pepa, Pavia
- 17.50 ID 115 • DOSIMETRIC BENEFITS OF 3D PRINTED PATIENT-SPECIFIC SURFACE APPLICATOR VERSUS STANDARD FREIBURG FLAP IN HDR BRACHYTHERAPY TREATMENT OF SKIN LESIONS
F. Itta, Taranto

SALA ONICE

Sessione Multidisciplinare e Nuovi Ambiti

- 8.00 **Corso di Aggiornamento** • Moderatore: *E. Vanzi, Firenze*
Metodi di registrazione deformabile: CQ dei software e verifica della correttezza della fusione.
G. Loi, Novara

- 8.45 **Relazione ad invito** • Moderatori: C. Gasperi, Firenze - S. Mazzocchi, Firenze
Rischio clinico in ambito diagnostico correlato alla riduzione di dose e alla non diagnosi.
F. Ria, Durham (USA)
- 9.15 **Relazione ad invito** • Moderatori: P. Bregant, Trieste - M. Giannelli, Pisa
Spectral CT, photocounting e caratterizzazione tissutale: stato dell'arte e applicazioni cliniche.
O. Rampado, Torino
- 9.45 **Relazione ad invito** • Moderatori: M. Avanzo, Aviano - A. Retico, Pisa
"Digital Pathology": stato dell'arte e prospettive future.
M. Iori, Reggio

Sessione di Comunicazioni Orali • Moderatori: C. Ghetti, Parma - L. Placidi, Roma

- 11.15 ID 344 • A COMPARISON BETWEEN 2D AND 3D GAN FOR RECTUM AND BLADDER AUTO-SEGMENTATION ON 0.35 T MR IMAGES
M. Vagni, Roma
- 11.25 ID 41 • LIMITED IMPACT OF DISCRETIZATION/INTERPOLATION PARAMETERS ON THE ASSOCIATION BETWEEN OUTCOME AND CT RADIOMIC FEATURES: RESULTS FROM A LARGE COHORT OF PANCREATIC CANCER PATIENTS
M. Mori, Milano
- 11.35 ID 370 • "AI4MP MACHINE LEARNING CHALLENGE": A MULTICENTRIC COLLECTIVE EXPERIENCE OF DATA SCIENCE FOR "BIG DATA AND ARTIFICIAL INTELLIGENCE" AIFM WORKING GROUP
M. Maddalo, Parma
- 11.45 ID 399 • DEEP LEARNING MODELS FOR TARGETING OF TRANSCRANIAL-MRGUIDED FOCUSED ULTRASOUND SURGERY FOR ESSENTIAL TREMOR
M. Romeo, Palermo
- 11.55 ID 232 • RADIOMICS FOR SMALL RENAL MASSES CHARACTERIZATION
R. Rossi, Parma
- 12.05 ID 166 • DISCRIMINATION OF SUSPICIOUS BREAST CANCER LESIONS THROUGH CONVOLUTIONAL NEURAL NETWORKS APPLIED TO ULTRASOUND IMAGES
P. De Marco, Milano
- 12.15 ID 354 • A SOFTWARE FOR EXTRACTING QUANTITATIVE METRICS AND RADIOMIC FEATURES IN CT IMAGES OF THE LUNG: TOOL DEVELOPMENT AND CLINICAL APPLICATIONS
L. Berta, Milano

12.30 **Simposio satellite**

13.15 **Pausa pranzo**

- 14.00 **Relazione ad invito** • Moderatori: M. Biondi, Grosseto - D. Cusumano, Olbia
Affidabilità e riproducibilità delle features radiomiche: standardizzazione e armonizzazione.
A. Traverso,

Sessione di Comunicazioni Orali • Moderatori: C. Fiorino, A. Lascialfari - Milano

- 16.30 ID 402 • ENHANCING DISCRIMINABILITY IN BRAIN-COMPUTER INTERFACE TASKS WITH INTERTWINED TIME-AND SPACE-DISTRIBUTED LAYERS
A. Duggento, Roma

- 16.35 ID 378 • EXPLAINABLE ARTIFICIAL INTELLIGENCE APPLIED TO MACHINE LEARNING FOR RADIOMICS
M. Chierogato, Brescia
- 16.40 ID 395 • BLUE SKY STUDY: RADIOMICS FEATURES AS PREDICTIVE MARKERS OF PROGRESSION-FREE SURVIVAL IN STAGE III, PD-L1 POSITIVE NSCLC
F. Brero, Pavia
- 16.45 ID 315 • CHALLENGING CONVENTIONAL NEURAL NETWORK TOPOLOGIES WITH COMPLEX GRAPHS
T. Boccatto, Roma
- 16.50 ID 77 • PET RADIOMICS FOR THE PREDICTION OF RESPONSE TO CHEMOTHERAPY IN BREAST CANCER PATIENTS
P. Tortoli, Parma
- 16.55 ID 9 • RADIOMIC-BASED STRATIFICATION OF HIGH-RISK PROSTATE CANCER PATIENT FOR THE PREDICTION OF BIOCHEMICAL FREE SURVIVAL
C. Ghetti, Parma
- 17.00 ID 213 • VALIDATION OF A PREDICTIVE MODEL OF COMPLETE RESPONDERS TO NEOADJUVANT CHEMOTHERAPY IN BREAST CANCER ON AN INDEPENDENT SET
P. G. Esposito, Verona
- 17.05 ID -66 • CLINICAL-RADIOMIC MODELING OF BREAST CANCER BASED ON DBT IMAGES
F. Murtas, Roma
- 17.10 ID 82 • BOOTSTRAP-BASED MACHINE LEARNING TO ROBUSTLY CHARACTERIZE PANCREATIC NEUROENDOCRINE NEOPLASMS (PANNEN) BASED ON CT RADIOMIC FEATURES
M. Mori, Milano

Sessione di Comunicazioni Orali • Moderatori: V. Cannatà, Roma - A. Retico, Pisa

- 17.15 ID 121 • MULTICENTER INTERCOMPARISON ASSESSMENT OF QUANTITATIVE DIFFUSION-WEIGHTED MRI-DERIVED RADIOMIC FEATURES: A PHANTOM STUDY
L. Altabella, Verona
- 17.30 ID 407 • ROBUSTNESS OF RADIOMIC FEATURES IN LUNG CT IMAGES: AN ANTHROPOMORPHIC PHANTOM STUDY
G. Zorzi, Milano
- 17.40 ID 282 • EFFECT OF DIFFERENT HARMONIZATION APPROACHES OF A MULTICENTRIC DATASET IN ASD/TD CLASSIFICATION
P. Oliva, Sassari

SALA 4 Sessione di Radioprotezione e Sicurezza dei Lavoratori e dei Pazienti

- 8.00 **Corso di Aggiornamento** • Moderatore: L. Bernardi, Pistoia
Decommissioning degli acceleratori lineari per radioterapia esterna e dei ciclotroni.
A. Brusa, Milano
- 8.45 **Relazione ad invito** • Moderatori: F. Banci Buonamici, Siena - S. De Crescenzo, Bergamo
Le emergenze radiologiche: un vero problema?
G. Poli, Bergamo
- 9.15 **Relazione ad invito** • Moderatori: M. C. Cantone, Milano - M. Brambilla, Novara

Radio protezione del lavoratore: quali evoluzioni sono previste nelle pubblicazioni ICRP
R. Werner,

9.45 **Relazione ad invito** • Moderatori: N. Romeo, Taormina - F. Rossi, Firenze
Radioprotezione del paziente nell'imaging ricorrente: dove dobbiamo andare?
M. Brambilla, Novara

11.15 **Relazione ad invito** • Moderatori: F. Calderoni, Ferrara - N. Romeo, Taormina
Review dei metodi e dei software per la valutazione di dose al paziente e al feto.
V. Cannatà, Roma

Sessione di Comunicazioni Orali • Moderatori: D. Aragno, Roma - N. Romeo, Taormina

11.45 ID 307 • NUCLEAR MEDICINE THERAPY WITH 177LU-PSMA-617 AND 177LU-DOTATATE: DOSE RATE PREDICTION AT LATE TIME FROM A SINGLE MEASUREMENT AT EARLY RELEASE TIME.
A MULTICENTRIC ITALIAN STUDY
M. Bagnalasta, Milano

11.55 ID 427 • STAFF EYE-LENS DOSE MONITORING IN INTERVENTIONAL RADIOLOGY: FINAL RESULTS OF A NATIONAL MULTI-PROCEDURE STUDY
S. Busoni, Firenze

12.05 ID 214 • THE INTER-LABORATORY COMPARISON (ILC) ON RADIOPHARMACEUTICALS
L. Spagnuolo, Roma

12.15 ID 361 • MULTI-CENTRE STUDY OF CORRELATION OF DOSE TO LENS, WHOLE-BODY AND THYROID IN INTERVENTIONAL PROCEDURE
M. Quattrocchi, Lucca

12.30 **Simposio satellite**

13.15 **Pausa pranzo**

14.00 **Relazione ad invito** • Moderatori: F. Banci Buonamici, Siena - S. De Crescenzo, Bergamo.
Gestione dell'allontanamento dei rifiuti radioattivi e stima della dose all'individuo rappresentativo a seguito della immissione in atmosfera e in sistema di acque superficiali.
C. Traino, Pisa

Sessione di Comunicazioni Orali • Moderatori: L. Bernardi, Pistoia - F. Rossi, Firenze

16.30 ID 420 • TYPE TESTING OF A DOSIMETRY SYSTEM IN TERMS OF HP(3)
F. Rossi, Firenze

16.40 ID 205 • THERAPY WITH 177-LU-DOTATATE: RADIATION SAFETY CONSIDERATIONS FOR AN OUTPATIENT TREATMENT
O. Ferrando, La Spezia

16.50 ID 287 • ASSESSMENT OF TLD DOSIMETERS PERFORMANCE FOR MONITORING ENVIRONMENTAL THERMAL NEUTRONS IN MIXED NEUTRON-GAMMA FIELDS
A. Piai, Milano

17.00 ID 181 • THE EURADOS EXPERIENCE ON EXTREMITY EXPOSURE OF WORKERS IN NUCLEAR MEDICINE
A. Zorz, Padova

- 17.10 ID 169 • A PILOT PROJECT FOR THE IMPLEMENTATION OF CLINICAL AUDITS AND FIRST IMPLEMENTATION OF LEGISLATIVE DECREE 101/2020 ART.168 IN INTERVENTIONAL RADIOLOGY: GENERAL AND SPECIFIC OBJECTIVES
S. Grande, Roma

Sessione di Comunicazioni Orali • Moderatori: *F. Foppiano, La Spezia - L. D'Ambrosio, Napoli*

- 17.30 ID 337 • DOSE REDUCTION FACTOR (DRF) EVALUATION FOR DIFFERENT EYE LENS PROTECTIVE EQUIPMENTS: PHANTOM MEASUREMENTS FOR INTERVENTIONAL RADIOLOGY PROCEDURES AND MONTE CARLO SIMULATIONS
C. Poggiali, Firenze
- 17.35 ID 84 • ESTIMATION OF EFFECTIVE AND ORGAN DOSES IN PATIENT UNDERGOING INTERVENTIONAL RADIOLOGY PROCEDURES: A MULTICENTER STUDY
A. D'Alessio, Novara
- 17.40 ID 272 • CUMULATIVE RADIATION DOSES IN LYMPHOMA PATIENTS FROM DIAGNOSTIC PROCEDURES
A. D'Alessio, Novara
- 17.45 ID 104 • CUMULATIVE RADIATION DOSES IN LYMPHOMA PATIENTS FROM DIAGNOSTIC PROCEDURES
M. Brambilla, Novara
- 17.50 ID 326 • MULTICENTER DATA COLLECTION OF PET/CT DOSIMETRIC DATA: PRELIMINARY RESULTS
S. Morzenti, Monza
- 17.55 ID 99 • MULTICENTRE EVALUATION OF THYROID AND LENS ABSORBED DOSE IN DIFFERENT INTERVENTIONAL AND SURGERY PROCEDURES
L. Fedeli, Pistoia

PALAZZO DEGLI AFFARI

- 14.30 Esposizione Fiera del Fai da Te e Poster
- 18.00 Esposizione Fiera del Fai da Te e Poster
- 19.00 **Aperitivo**

Sabato 10 giugno 2023

AUDITORIUM **Sessione di Terapia**

- 8.00 **Corso di Aggiornamento** • Moderatore: C. Chiesa, Milano
Dalla dose media alla biological voxel dosimetry: software e modelli di calcolo.
L. Strigari, Bologna
- 8.45 **Relazione ad invito** • Moderatori: M. Parisotto, Ancona - C. Talamonti, Firenze
Audit Dosimetrico in Radioterapia: l'esperienza italiana.
S. Russo, Firenze
- 10.00 **Tavola Rotonda**
Esposizioni Mediche.
- Sessione di Comunicazioni Orali** • Moderatori: L. Marrazzo, Firenze - E. Vanzi, Siena
- 11.00 ID 301 USE DOSE OF SURFACE MAPS TO IDENTIFY BLADDER SUB-REGIONS ASSOCIATED WITH LATE TOXICITIES AFTER PROSTATE CANCER RADIOTHERAPY
E. Gioscio, Milano
- 11.10 ID 68 • A NEW APPROACH TO EVALUATE THE STOPPING POWER OF CLINICAL BEAMS FOR PROTON THERAPY OPTIMIZATION
V. Ferrero, Torino
- 11.20 ID 114 • DOSIMETRIC EFFECTS OF DICOM RT DATASET TRANSFER BETWEEN DIFFERENT RADIOTHERAPY TPS
E. Chillè, Roma
- 11.30 ID 225 • DOSIMETRY AUDIT SERVICE FOR ITALIAN RADIOTHERAPY CENTRES
A. Embriaco, Roma
- 11.40 ID 265 • ALANINE/EPR DOSIMETRY FOR ULTRA-HIGH DOSE RATE BEAMS USED FOR FLASH RADIOTHERAPY
M. Marrale, Palermo
- 11.50 ID 341 • ASSESSMENT OF INTRA-FRACTION DOSIMETRIC VARIATIONS AMONG 3 RT PARADIGMS BY A CARDIAC MOTION MODEL
N. Maffei, Modena
- 12.00 ID 142 • INDEPENDENT EXTERNAL VALIDATION OF FOUR NTCP MODELS FOR HEAD AND NECK CANCER PATIENTS
F. Emiro, Milano
- 12.15 **Simposio satellite**
- 13.00 **Pausa pranzo**
- 13.30 **Relazione ad invito** • Moderatori: C. Arricchiello, Napoli - M. Zani, Firenze
La qualità di un piano in Radioterapia.
M. Fusella, Abano Terme
- 14.00 **Relazione ad invito** • Moderatori: G. Cuttone, Catania - V. Ferrero, Torino
Radioterapia con protoni: applicabilità e prospettive future.
M. Schwarz, (U.S.A.)

Sessione di Comunicazioni Orali • Moderatori: S. Russo, C. Talamonti - Firenze

- 14.30 ID 60 • ROTATIONAL TOTAL SKIN ELECTRON THERAPY WITH AN IN-HOUSE-BUILT FLATTENING FILTER
L. Marrazzo, Firenze
- 14.40 ID 328 • BEAM MODEL-BASED COMMISSIONING: ROBUSTNESS AND SMALL FIELD EVALUATION
F. La Fauci, Milano
- 14.50 ID 12 • BASIC DOSIMETRY OF A NEW SYSTEM FOR BREAST STEREOTACTIC RADIOTHERAPY
P. Scalchi, Udine
- 15.00 ID 26 • INTER-INSTITUTE VARIABILITY AND TRANSFERABILITY OF KNOWLEDGE BASED (KB) MODELS
FOR STEREOTACTIC BODY RADIATION THERAPY (SBRT) OF PROSTATE CANCER
S. Broggi, Milano
- 15.10 ID 423 • GENETICALLY-BASED COX-NTCP MODELS FOR LATE TOXICITY AFTER PROSTATE CANCER RT
T. Rancati, Milano

15.30 **Pro e Contro** • Moderatori: M. Felisi, Milano - L. Pierotti, Bologna

Implementazione dell'esposizione nel referto: classe di dose o parametri di esposizione?
Corrente che ritiene che debba essere inserita la classe di dose VERSUS corrente che ritiene
che debbano essere inseriti i parametri espositivi.

D. Origgi, Milano - F. Levrero, Genova *versus* M. Brambilla, Novara - M. Stasi, Torino

Sessione di Comunicazioni Orali • Moderatori: F. Foppiano, La Spezia - L. Marrazzo, Firenze

- 16.30 ID 383 • SPECTROPHOTOMETRY-BASED PREDICTIVE MODEL FOR ACUTE SKIN TOXICITY AFTER BREAST
RADIOTHERAPY
S. Cilla, Campobasso
- 16.35 ID 417 • DOSIMETRY PREDICTORS OF LATE SKIN REACTIONS AFTER WHOLE BREAST RADIOTHERAPY
ON A LARGE MONO-INSTITUTIONAL COHORT OF PATIENTS
A. Cicchetti, Milano
- 16.40 ID 93 • EXTENSIVE CLINICAL VALIDATION OF AI-BASED CT AUTO-CONTOURING FOR PROSTATE CANCER
RADIOTHERAPY USING A COMMERCIAL SYSTEM
G. Palazzo, Milano
- 16.45 ID 80 • COMPARISON BETWEEN THE RECENT MYQA SRS DETECTOR AND EPID WITH PORTAL DOSIMETRY
SOFTWARE TO DETECT SUB-MILLIMETERS MULTILEAF COLLIMATOR POSITIONING ERRORS FOR HYPERARC
TREATMENTS
N. Cavalli, Catania
- 16.50 ID 23 • DOSE-VOLUME CONSTRAINTS FOR RE-IRRADIATION OF PROSTATE CANCER RELAPSE
R. Cambria, Milano
- 16.55 ID 228 • A DOSIMETRY INTERCOMPARISON FOR ITALIAN RADIOTHERAPY CENTRES
P. Martucci, Roma
- 17.00 ID 238 • A CLINICAL AUDIT ON VMAT AND IMRT FOR PROSTATE AND HEAD&NECK TREATMENT
IN THE FRAMEWORK OF THE "OPTIMIZATION PROCESS IN RADIOTHERAPY (OPORA)" PROJECT:
AN OVERVIEW OF THE DEVELOPED SELF-ASSESSMENT INDICATORS
A. Palma, Roma
- 17.05 ID 305 • VMAT TOTAL BODY IRRADIATION (TBI): TECHNIQUE DEVELOPMENT AND VERIFICATION
WITH SINGLE WHOLE-BODY CT SCAN AND STANDARD RADIOTHERAPY (RT) EQUIPMENT
L. Brambilla, Milano

- 17.10 ID 380 • A PREDICTIVE MODEL FOR "A-PRIORI" CLASSIFICATION OF THE DOSIMETRIC ACCURACY OF VMAT PLANS
S. Cilla, Campobasso
- 17.15 ID 411 • A SMALL PORTABLE PROTOTYPE SECONDARY STANDARD CALORIMETER FOR FLASH RADIOTHERAPY REFERENCE DOSIMETRY WITH UHDR BEAMS
F. Romano, Catania
- 17.30 **Assemblea Soci**

SALA VERDE **Sessione di Imaging**

- 8.00 **Corso di Aggiornamento** • Moderatore: L. Mascaro, Brescia
QA nelle tecniche avanzate di RM.
L. Altabella, Verona
- 8.45 **Relazione ad invito** • Moderatori: S. Cargnel, Venezia - G. Poli, Bergamo
Rivelatori impiegati in Medicina Nucleare e PET total body: stato dell'arte e innovazione tecnologica.
A. Zorz, Padova

Sessione di Comunicazioni Orali • Moderatori: L. Mascaro, Brescia - V. Rossetti, Torino

- 11.00 ID 336 • MODEL OBSERVER METHODS FOR LOW CONTRAST DETECTABILITY ASSESSMENT IN DIGITAL ANGIOGRAPHY: ANALYTICAL MODELS AND AN INNOVATIVE NEURAL NETWORK APPROACH
C. Ingraito, Milano
- 11.10 ID 162 • ESTIMATION OF AIR-KERMA AREA PRODUCT (KAP) TO EFFECTIVE DOSE CONVERSION FACTORS IN DIAGNOSTIC AND INTERVENTIONAL NEURORADIOLOGY PROCEDURES USING AN ON-THE-FLY MONTE CARLO SOFTWARE
M. M. J. Felisi, Milano
- 11.20 ID 201 • INNOVATIVE MODELS FOR DOSIMETRY IN X-RAY BREAST IMAGING: IMPACT OF THE GLANDULAR TISSUE DISTRIBUTION AND BREAST SILHOUETTE
A. Sarno, Napoli
- 11.30 ID 17 • COMPLEXITY INDEX IN NEUROINTERVENTIONAL RADIOLOGY: COMPARISON OF RESULTS FROM SINGLE-CENTER, TRI-CENTER, AND NATIONAL STUDY
M. Cavallari, Pavia
- 11.40 ID 428 • DETECTABILITY INDEX TO STANDARDISE CT OPTIMIZATION: A MULTICENTER STUDY
R. Villa, Monza
- 11.50 ID 179 • OPTIMISING THE PROCESS OF PATIENT DOSE OPTIMISATION
L. Riccardi, Padova
- 12.00 ID 184 • AN ABSOLUTE INDEX OF NOISE FOR IMAGE QUALITY ASSESSMENT IN 2D MAMMOGRAPHY AND BREAST TOMOSYNTHESIS: A MULTICENTRIC STUDY
N. Paruccini, Monza

12.15 **Simposio satellite**

13.00 **Pausa pranzo**

13.30 **Tavola Rotonda**

Scuole di Specializzazione e Lauree abilitanti.

Sessione di Comunicazioni Orali • Moderatori: L. Altabella, Verona - G. Belli, Firenze

14.30 ID 75 • OBJECTIVE METRIC FOR ASSESSMENT OF LANGUAGE LATERALIZATION IN HEALTHY SUBJECTS AND EPILEPTIC PATIENTS
M. Stroppi, Milano

14.40 ID 398 • ASSESSMENT OF VARIABILITY IN PERFORMANCES OF SCANNERS FOR FUNCTIONAL MAGNETIC RESONANCE IMAGING A LARGE MULTICENTER INTERCOMPARISON PHANTOM STUDY
G. Belmonte, Lucca

14.50 ID 39 • NMR STUDY OF THE DIFFUSION OF WATER MOLECULES IN WHITE MATTER
A. Chiappiniello, Perugia

15.00 ID 400 • DETERMINATION OF ISOCITRATE DEHYDROGENASE (IDH) STATUS IN BRAIN GLIOMAS USING EDITED IN VIVO MAGNETIC RESONANCE SPECTROSCOPY (MRS): A CLINICAL FEASIBILITY STUDY
P. Tiberio, Milano

15.10 ID 371 • T1-WEIGHTED BRAIN MRI: QUALITY ASSESSMENT, VARIABILITY AND REPRODUCIBILITY OF ANATOMICAL MEASUREMENTS IN THE RIN-NEUROIMAGING NETWORK
P. Bosco, Pisa

15.30 **Tavola Rotonda**

Ricerca ed innovazione in Fisica Medica

Sessione di Comunicazioni Orali • Moderatori: P. Bregant, Trieste - F. Calderoni, Ferrara

16.30 ID 170 • SEGMENTATION AND CLASSIFICATION OF THE PULMONARY VASCULAR SYSTEM: A GRAPH THEORY APPROACH
M. Rossetti, Firenze

16.40 ID 45 • TYPICAL VALUES FOR Z-RESOLUTION OF DIFFERENT DIGITAL BREAST TOMOSYNTHESIS SYSTEMS EVALUATED IN A MULTICENTER STUDY
S. Dalmonte, Ravenna

16.50 ID 48 • PERFORMANCE OF THREE MODEL-BASED ITERATIVE RECONSTRUCTION ALGORITHMS USING A CT TASK-BASED IMAGE QUALITY METRIC
G. Muti, Milano

17.00 ID 292 • DIAGNOSTIC REFERENCE LEVELS IN INTERVENTIONAL RADIOLOGY FOR THE ADULT PATIENT: NATIONAL SURVEY RESULTS FOR THE RAPPORTI ISTISAN 20/22 UPDATE
L. D'Ercole, Pavia

17.05 ID 81 • CONVOLUTIONAL NEURAL NETWORKS AS MODEL OBSERVERS FOR COMPUTED TOMOGRAPHY PROTOCOLS OPTIMIZATION: RESULTS OF A MULTIDISCIPLINARY PROJECT
S. Doria, Sesto Fiorentino (FI)

17.10 ID 42 • TYPICAL VALUES FOR DIFFERENT DIGITAL BREAST TOMOSYNTHESIS SYSTEMS EVALUATED IN A MULTICENTER STUDY
V. Ravaglia, Ravenna

17.15 ID 94 • OPTIMIZATION AND CLINICAL VALIDATION OF A VIDEOFLUOROGRAPHIC PROTOCOL FOR SWALLOWING DISEASES
C. Pugliatti, Verduno (CN)

SALA ONICE **Sessione Multidisciplinare e Nuovi Ambiti**

8.00 **Corso di Aggiornamento** • Moderatore: M. Giannelli, Pisa
Flash therapy: stato dell'arte e prospettive future.
F. Romano, Roma

8.45 **Relazione ad invito** • Moderatori: L. Altabella, Verona - M. Giannelli, Pisa
Quale futuro per la risonanza magnetica?
G. Belli, Firenze

Sessione di Comunicazioni Orali • Moderatori: C. Chiesa, Milano - M. Severgnini, Trieste

11.00 ID 375 • DOSIMETRY AND SURVIVAL IN UNRESECTABLE PRIMARY HEPATOCELLULAR CARCINOMA PATIENTS UNDERGOING SELECTIVE INTERNAL RADIOTHERAPY WITH RESIN 90Y: THE INTERIM ANALYSIS OF A RANDOMIZED CLINICAL TRIAL
L. Strigari, Bologna

11.10 ID 89 • MONTE CARLO-BASED LUNG DOSIMETRY AND CORRELATIONS WITH LUNG-SHUNT IN LIVER RADIOEMBOLIZATION WITH LABELLED MICROSPHERES
E. D'Andrea, Roma

11.20 ID 277 • ROLE OF DOSIMETRY TO PREDICT TUMORAL OUTCOME FOR HEPATOCARCINOMA PATIENTS TREATED WITH 90Y-MICROSPHERES
A. Di Dia, Torino

11.30 ID 106 • TUMOR RESPONSE PREDICTION IN 90Y-RESIN MICROSPHERE RADIOEMBOLIZATION WITH PET/CT AND CONE BEAM CT-BASED EQUIVALENT UNIFORM DOSE (EUD)
E. Di Gaeta, Milano

11.40 ID 56 • 223RA ALPHA-EMITTER RADIONUCLIDE PHARMACEUTICALS (RN) AND EXTERNAL BEAM RADIOTHERAPY (EBRT): A RADIOBIOLOGICAL MODEL FOR THE COMBINED TREATMENT
M. L. Belli, Meldola (FC)

11.50 ID 148 • DOSE EVALUATION FOR 177LU-PRRT RADIATION SAFETY IN PAEDIATRIC PATIENTS
E. Solfaroli Camillocci, Roma

12.00 ID 279 • MONTE CARLO UPDATE OF 90Y VOXEL S-VALUES INCLUDING INTERNAL BREMSSTRAHLUNG AND ANALYTICAL MODEL ALLOWING THE EVALUATION FOR ANY VOXEL SIZE
D. Pistone, Messina

12.15 **Simposio satellite**

13.00 **Pausa pranzo**

13.30 **Relazione ad invito** • Moderatori: L. D'Ambrosio, Napoli - E. Richetta, Torino
Lu177: radiofarmaci innovativi mirati ad una terapia personalizzata?
A. Sarnelli, Bologna

14.00 **Relazione ad invito** • Moderatori: A. Lascialfari, Milano - S. Marzi, Roma
Le applicazioni della luce in medicina: prospettive future e ruolo del fisico medico.
F. Frigerio, Pavia

Sessione di Comunicazioni Orali • Moderatori: M. Avanzo, Aviano - D. Cusumano, Olbia

14.30 ID 32 • PET AND MRI FOR EARLY ASSESSMENT OF NEURONAL DEGENERATION IN A TRANSGENIC MOUSE MODEL OF PARKINSON'S DISEASE
S. Magnino, Milano

14.40 ID 105 • MONTECARLO SIMULATIONS, REALIZATION AND DOSIMETRY VERIFICATION OF AN IN-HOUSE DEVELOPED COLLIMATOR FOR PRECLINICAL MINIBEAM RADIOTHERAPY
A. Spinelli, Milano

14.50 ID 155 • PLANAR SILICON SENSORS FOR FLASH BEAMS MONITORING
A. Ferro, Torino

15.00 ID 220 • THE ALLS CHAMBER: TECHNICAL ISSUES AND PRACTICAL SOLUTIONS FOR THE REALIZATION OF A NEW ONLINE DOSIMETER FOR FLASH RADIOTHERAPY
M. Montefiori, Pisa

15.10 ID 323 • A NEW TRIODE-GUN LINEAR ACCELERATOR FOR FLASH RADIOTHERAPY RESEARCH: THE CPFR ELECTRONFLASH
D. Del Sarto, Pisa

15.30 **Relazione ad invito** • Moderatori: F. Fusi, Firenze - S. Marzi, Roma
MRI-LINAC: quali esperienze e quali prospettive?
L. Placidi, Roma

16.00 **Relazione ad invito** • Moderatori: L. Altabella, Verona - C. Talamonti, Firenze
Flash-therapy con elettroni: l'esperienza di Pisa.
F. Di Martino, Pisa

Sessione di Comunicazioni Orali • Moderatori: G. Belli, Firenze - G. Cuttone, Catania

16.30 ID 49 • THE AI-FLOPP PROJECT, FEDERATED LEARNING AS A STEP FORWARD IN DIGITAL PATHOLOGY: A MULTI-CENTRIC PIPELINE AND QA PLATFORM TO SUPPORT AI-BASED DIAGNOSIS OF PROSTATE CANCER
M. Iori, Reggio Emilia

16.35 ID 59 • MODFUS: A NEW IN SILICO MODEL TO PRECISELY DESIGN FOCUSED ULTRASOUND BRAIN THERAPIES
N. Toschi, Roma

16.40 ID 320 • CONTRAST-ENHANCED HIGH RESOLUTION PERIPHERAL QUANTITATIVE COMPUTED TOMOGRAPHY OF ARTICULAR CARTILAGE: IMAGING OUTCOME AND CORRELATION WITH TISSUE'S MECHANICS
S. Fantoni, Bologna

16.45 ID 96 • ORGAN DOSE ESTIMATES IN COMPUTED TOMOGRAPHY: 3D OPTICAL SCANNING FOR PATIENT-SPECIFIC VOXEL PHANTOMS
F. S. Maddaloni, Milano

16.50 ID 351 • TERAHERTZ TECHNOLOGY AT TERRA@BRIXSINO: TOWARDS HIGH-FREQUENCY TERAMOMETRY FOR CANCER DIAGNOSIS
C. Koral, Potenza

16.55 ID 125 • IMPACT OF HARMONIZATION TECHNIQUES ON SCANNER VARIABILITY CT RADIOMIC FEATURES TO PREDICT OUTCOME OF PANCREATIC CANCER PATIENTS
M. Mori, Milano

17.00 ID 183 • COMBINING STRUCTURAL AND FUNCTIONAL MRI-BASED BRAIN FEATURES WITH A DEEP LEARNING JOINT FUSION APPROACH
S. Saponaro, Pisa

- 17.05 ID 18 • CONVOLUTIONAL NEURAL NETWORKS FOR CLASSIFICATION OF COVID19 X-RAYS IMAGES
G. Ciacci, Firenze
- 17.10 ID 295 • EVALUATION OF THE IMPACT OF ACQUISITION AND ELABORATION PARAMETERS OVER RADIOMIC FEATURES IN TRIPLE NEGATIVE BREAST CANCER MRI
L. Berton, Torino
- 17.15 ID 200 • GLIOMA GRADING USING TEMPORAL FEATURES OF MULTIMODAL TIME ACTIVITY CURVES IN 18F-FPIA PET/MRI
M. Inglese, Roma
- 17.20 ID 209 • LATTICE AS SFRT PRACTICE IN UNRESECTABLE AND UNSUITABLE TO ABLATIVE RADIOTHERAPY BULKY TUMORS
A. Brogna, Messina
- 17.25 ID 3 • IMAGE QUALITY FOR DIGITAL BREAST TOMOSYNTHESIS (DBT): A STATISTICAL LOW CONTRAST DETAIL APPROACH FOR SYNTHESIZED AND RECONSTRUCTED PLANES
M. Porzio, Cuneo

SALA 4 **Sessione di Didattica e Formazione**

- 8.00 **Corso di Aggiornamento** • Moderatore: F. Fusi, Firenze
Modalità innovative per la formazione: MOOC, Open Access e OER.
M. R. Guelfi, Firenze
- 8.45 **Relazione ad invito** • Moderatori: S. Pallotta, Firenze - A. Torresin, Milano
Distanza in presenza, prossimità online: demolizione di una dicotomia.
A. Formiconi, Firenze
- 11.00 **Relazione ad invito** • Moderatori: C. Lenardi, Milano - P. Russo, Napoli
Scuola Caldirola, European School of Medical Physics Expert di EFOMP.
Corsi ICTP per la fisica medica nel mondo.
A. Trianni, Trento - A. Torresin, Milano - R. Padovani, Trieste
- 12.15 **Simposio satellite**
- 13.00 **Pausa pranzo**
- 13.30 **Gruppo di Lavoro**
Futurus e AI
- 14.00 **Relazione ad invito** • Moderatori: N. Maffei, L. Nocetti - Modena
Come scrivere un progetto di ricerca.
C. Fiorino, Milano
- 14.30 **Relazione ad invito** • Moderatori: N. Maffei, L. Nocetti - Modena
Come stilare un curriculum vitae ed impostare un lavoro scientifico.
P. Russo, Napoli

Sessione di Comunicazioni Orali • Moderatori: R. Castriconi, Milano - C. Gasperi, Firenze

- 15.30 ID 234 • ROBUSTNESS EVALUATION OF SGRT DIBH BREAST RADIOTHERAPY
S. Russo, Firenze
- 15.40 ID 264 • THE MICROVASCULAR HEALTH STATUS PREDICTS RADIO-INDUCES ACUTE TOXICITY IN BREAST AND PROSTATE CANCER PATIENTS
F. Badenchini, Milano
- 15.50 ID 87 • AUTOMATED IMRT AND VMAT PLANNING FOR WHOLE BREAST IRRADIATION
D. Chilà, Firenze
- 16.00 ID 268 • REALISTIC ROBUSTNESS EVALUATION TOOL TO IMPROVE THE RELIABILITY OF MFO PROTON THERAPY PLAN EVALUATIONS IN SKULL BASE PATIENTS
F. Fracchiolla, Trento
- 16.10 ID 62 • PLAN ADAPTATION IN A PARTICLE THERAPY: RETROSPECTIVE ANALYSIS ON 1-YEAR TREATMENTS AT CNAO
A. Vai, Pavia
- 16.30 **Gruppi di Lavoro**
Report: Diagnostica

PALAZZO DEGLI AFFARI

- 9.15 Esposizione Fiera del Fai da Te e Poster

MUSEO DEGLI INNOCENTI

- 19.30 **Cena Sociale**

Domenica 11 giugno 2023

AUDITORIUM **Sessione di Terapia**

8.30 **Corso di Aggiornamento** • Moderatore: L. Marrazzo, Firenze
Gestione del movimento respiratorio in radioterapia: soluzioni, sfide e prospettive.
C. Garibaldi, Milano

9.30 **Pro e Contro** • Moderatori: A. Lascialfari, Milano - A. Retico, Pisa
Siamo pronti ad integrare le tecnologie AI nella pratica clinica?
Meglio privilegiare le performances o l'interpretabilità?
M. Avanzo, Aviano - A. Barucci *versus* T. Rancati, Milano - A. Traverso,

10.30 **Relazione ad invito** • Moderatori: C. Fiorino, Milano - A. Lascialfari, Milano
Re-igniting the Role of Medical Physics.
R. Jeraj,

Sessione di Comunicazioni Orali • Moderatori: C. Gasperi, M. Zani - Firenze

11.30 ID 127 • COMPLEXITY INDICES AND DOSIOMIC FEATURES OF RADIOTHERAPY PLANS TO PREDICT PATIENT-SPECIFIC QA RESULTS
S. Calusi, Firenze

11.35 ID 171 • AN INTER-DEPARTMENT COMPARISON IN TOMOTHERAPY SMALL FIELD DOSIMETRY
F. R. Giglioli, Torino

11.40 ID 194 • THE ROLE OF A DIRECTDENSITY® CT RECONSTRUCTION IN A RADIOTHERAPY WORKFLOW: A PHANTOM STUDY
C. Guidi, Bologna

11.45 ID 176 • COVID-19 SEVERITY PREDICTION BASED ON RADIOMIC FEATURES EXTRACTED FROM LUNG CT SCANS USING THE LUNGQUANT SEGMENTATION SOFTWARE
C. Scapicchio, Pisa

11.50 ID 367 • IN VITRO RADIOBIOLOGICAL MEASUREMENTS AND COMPUTATIONAL MODELLING TO OPTIMIZE RADIOTHERAPY TREATMENTS AND TEST COMBINED EFFECTS OF DIFFERENT THERAPEUTIC AGENTS: AN EXPLORATORY APPLICATION TO COLORECTAL CANCER
G. Baiocco, Pavia

11.55 ID 390 • KNOWLEDGE BASED PLANNING: MODEL ITERATION AND PLAN COMPLEXITY FOR HEAD AND NECK PATIENTS
F. Lobefalo, Milano

12.00 ID 210 • CLINICAL IMPLEMENTATION OF MRI-ONLY RADIOTHERAPY FOR PROSTATE TREATMENTS: COMMISSIONING AND PATIENT-SPECIFIC QA
M. Fusella, Abano Terme (PD)

12.05 ID 251 • INVERSE CONSISTENCY ERROR AS A VALIDATION METRIC FOR DEFORMABLE IMAGE REGISTRATION: IMPLEMENTATION RESEARCH WITH DIFFERENT COMPUTATIONAL PHANTOMS
G. Loi, Novara

12.10 ID 329 • COMPREHENSIVE COMPARISON OF FOUR AUTOMATIC TOOLS IN OAR SEGMENTATION FOR GYNAECOLOGICAL RADIOTHERAPY
B. Bordigoni, Milano

12.15 ID 356 • THREE YEARS OF CLINICAL EXPERIENCE WITH A TRANSMISSION DETECTOR FOR IN VIVO VERIFICATION IN SBRT VMAT RADIOTHERAPY
L. Radici, Ivrea

12.30 **Premiazione, Proclamazione degli Eletti e Chiusura del Congresso**

SALA VERDE **Sessione di Imaging**

8.30 **Corso di Aggiornamento** • Moderatore: *M. Quattrocchi, Lucca*

I sistemi di monitoraggio della dose come strumento dello Specialista in Fisica Medica per adempiere agli obblighi del D. Lgs. 101/2022.
P. E. Colombo, Milano

Sessione di Comunicazioni Orali • Moderatori: *M. Biondi, Grosseto - G. Poli, Bergamo*

9.30 ID 100 • FIRST LIVE-EXPERIENCE SESSION WITH PET/CT SPECIMEN IMAGER: A PILOT ANALYSIS IN PROSTATE CANCER AND NEUROENDOCRINE TUMOR
M. Ferrari, Milano

9.40 ID 216 • SEMI-QUANTITATIVE ANALYSIS ON IOFLUPANE (I-123) BRAIN SPECT: A MULTICENTRE INTERCOMPARISON
F. Campanaro, Bergamo

9.50 ID 368 • RADIOMICS CAN HELP DIAGNOSIS OF PET/CT PROSTATE INCIDENTALOMA?
L. Manco, Ferrara

10.00 ID 165 • MEDICAL LASERS: THE AIFM LASER WORKING GROUP FOR SAFETY AND QUALITY ASSURANCE IN THE SURGICAL AND OUTPATIENT PRACTICE
A. Guasfi, Siena

10.10 ID 359 • INNOVATIVE 222-NM LIGHT SOURCES AGAINST AIRBORNE INFECTIONS FOR PUBLIC HEALTH
G. Insero, Firenze

Sessione di Comunicazioni Orali • Moderatori: *S. Busoni, Firenze - C. Chiesa, Milano*

10.30 ID 345 • CLINICAL TRIAL QUALIFICATION OF PET-CT SCANNERS IN ONCO-HAEMATOLOGICAL CLINICAL TRIALS: A WORLDWIDE EXPERIENCE FROM CUNEO IMAGING CORELAB (CNCL)
F. Bergesio, Cuneo

10.35 ID 25 • LOW-COUNT STATISTICS CHARACTERIZATION OF A CARDIAC SOLID-STATE IMAGING SYSTEM THROUGH IMAGE QUALITY VALIDATION
D. Dundara Debeljuh, Rijeka, Croatia

10.40 ID 74 • ACCEPTANCE TESTING AND IMPLEMENTATION IN CLINICAL ROUTINE OF VERITON MULTI-CZT DETECTOR SPECT/CT SYSTEM
L. D'Ambrosio, Napoli

10.45 ID 364 • TECHNICAL SET-UP OF A FULLY INTEGRATED PET/MR SYSTEM FOR RADIOTHERAPY APPLICATIONS
M. Olivieri, Milano

10.50 ID 286 • A NEW APPROACH TO REAL-TIME DETECTION OF 18F-FDG EXTRAVASATION EVENTS AND SUV CORRECTION ESTIMATION
N. Cucurachi, Reggio Emilia

10.55 ID 174 • A PROCEDURE FOR ANALYSIS OF MS TISSUE DAMAGE THROUGH QUANTITATIVE DTI
L. Noferini, Firenze

- 11.00 ID 129 • SAFETY MATRIX AND RISK ASSESSMENT MATRIX IN A MAGNETIC RESONANCE IMAGING (MRI) 1.5 TESLA FACILITY
M. Bray, Macerata
- 11.05 ID 71 • SAFETY, HEALTH AND DATA MANAGEMENT IN MRI
D. Rembado, Cuneo
- 11.10 ID 340 • ON THE ASSESSMENT OF MOLLI T1 MAPS ACCURACY: AN IN-VIVO STUDY ON THIGH MUSCLES WITH AN IN-SCAN REFERENCE SYSTEM
D. Cicolari, Milano
- 11.15 ID 168 • IMPLEMENTATION OF A DIAGNOSTIC THERAPEUTIC ASSISTANCE PATH (PDTA) FOR THE EXECUTION OF MRI EXAMINATIONS ON PATIENTS WITH CONDITIONAL ACTIVE IMPLANTED CARDIAC DEVICES: THREE YEARS OF EXPERIENCE OF THE SAN CAMILLO FORLANINI HOSPITAL
D. Aragno, Roma
- 11.20 ID 362 • IMPLEMENTATION OF THE DWI QIBA QUALITY ASSURANCE PROTOCOL ON A LARGE MULTI-HOSPITAL PUBLIC HEALTH INSTITUTION
A. Bruschi, Firenze
- 11.25 ID - 261 • LASER INTERACTION WITH MEDICAL TEXTILES: CHANGES OF OPTICAL PROPERTIES AND DAMAGE THRESHOLDS
M. C. Cimmino, Siena
- 11.30 ID 97 • STUDY OF MRI WORKERS' FIELD EXPOSURE THROUGH COMPUTER SIMULATION
R. Rollo, L'Aquila

Sessione di Comunicazioni Orali • Moderatori: *S. Busoni, S. Mazzocchi - Firenze*

- 11.35 ID 236 • 10 YEARS OF CT ADVANCES: IMPACT ON RADIATION DOSE AND IMAGE QUALITY
D. Alio, IEO, Milano
- 11.40 ID 404 • QUANTITATIVE ASSESSMENT OF TISSUE DENSITY AND IODINE CONCENTRATION BY CBCT AFTER INTERVENTIONAL DEB-TACE PROCEDURES: A PHANTOM STUDY
G. Lo Moro, Torino
- 11.45 ID 86 • VIRTUAL CLINICAL TRIAL FOR DOSE DISTRIBUTION EVALUATION FOR THREE CONE BEAM BREAST COMPUTED TOMOGRAPHY SCANNERS USING A FAST GPU-BASED MONTE CARLO CODE
G. Mettivier, Napoli
- 11.50 ID 387 • SEGMENTATION OF PATHOLOGICAL LUNGS BASED ON SPLINE AND RADIOMICS VOXEL-BASED: A PILOT STUDY ON A DATASET OF ARDS (ACUTE RESPIRATORY DISTRESS SYNDROME) PATIENTS
D. Cozzi, Firenze
- 11.55 ID 297 • SIGNIFICANT PATIENT DOSE REDUCTION (E AND DAP) IN PLAIN RADIOGRAPHY BY MEANS OF HIGHER KV AND INNOVATIVE IMAGE PROCESSING
N. Oberhofer, Bolzano
- 12.00 ID 249 • PATIENT DOSE EVALUATION IN NEURORADIOLOGIC PROCEDURES: COMPARISON OF TWO DIFFERENT SOFTWARE
F. Calderoni, Ferrara

SALA ONICE **Sessione Multidisciplinare e Nuovi Ambiti**

8.30 **Corso di Aggiornamento** • Moderatore: M. Avanzo, Aviano
Corso base di machine learning ed AI.
A. Retico, Pisa

Sessione di Comunicazioni Orali • Moderatori: L. Masi, S. Russo - Firenze

9.30 ID 37 • DOSIMETRIC AND LET ANALYSIS ON PATIENTS AFFECTED BY SACRAL CHORDOMA TREATED WITH CIRT
L. Giberti, Milano

9.40 ID 212 • AUTO PLANNING IN THE SETTING OF SBRT FOR LUNG CANCER
V. Landani, Roma

9.50 ID 122 • HOW COMPLEX IS A MRGRT PLAN? TOWARDS AN ADVANCED ONLINE ADAPTIVE PLAN OPTIMIZATION AND EVALUATION
L. Placidi, Roma

10.00 ID 52 • A MULTICENTRIC COOPERATIVE EFFORT ON A SHARED CLOUD-BASED PLATFORM FOR PEDIATRIC RADIOTHERAPY QA
A. Scaggion, Padova

10.10 ID 53 • LEXICOGRAPHIC OPTIMIZATION-BASED PLANNING FOR BRAIN METASTASIS RADIOSURGERY WITH COPLANAR ARCS
S. Trivellato, Monza

10.30 **Gruppi di Lavoro**
Report: Terapia

Sessione di Comunicazioni Orali • Moderatori: L. D'Ambrosio, Napoli - E. Richetta, Torino

11.30 ID 353 • INVESTIGATING THE DISCREPANCIES BETWEEN PET-MEASURED AND MANUFACTURER-STATED 90Y-MICROSPHERES VIAL ACTIVITIES VIA MONTE CARLO SIMULATIONS OF THE ACTIVITY-METER ELECTRIC CURRENT OUTPUT
S. Gnesin, Lausanne, Switzerland

11.35 ID 151 • A NOVEL TOOL FOR PREDICTING DOSE DISTRIBUTION OF NON-SEALED 188RE RESIN IN NMSC PATIENTS
G. Paolani, Bologna

11.40 ID 146 • DEVELOPMENT OF A WEARABLE INDIVIDUAL DOSE MONITORING APPARATUS FOR INTERNAL DOSIMETRY IN TARGETED RADIONUCLIDE THERAPY
L. Campana, Roma

11.45 ID 245 • DOSIMETRY OF HEPATIC METASTASES AND LIVER FOR PATIENTS UNDERGOING HO-166 MICROSPHERES RADIOEMBOLIZATION
B. Cassano, Roma

11.50 ID 73 • WHOLE-BODY DOSIMETRY OF 131I-MIBG FOLLOWING HIGH-GRADE PAEDIATRIC NEUROBLASTOMA FIRST TREATMENT
M. Gambaro, Genova

11.55 ID 243 • COMPARISON OF DIFFERENT ALGORITHMS FOR THE CONVERSION OF RTSS FILE INTO BINARY MASK FOR SPECT-BASED 177LU-PEPTIDE KIDNEY DOSIMETRY: IMPACT ON KIDNEYS' VOLUME AND ABSORBED DOSE
G. Castiglione Minischetti, Milano

- 12.00 ID 385 • IMPACT OF MEDIUM DENSITY IN VOXEL-BASED DOSIMETRY OF 90Y-TARE EVALUATED WITH VOXEL S-VALUE (VSV) METHOD AND FAST MONTE CARLO SIMULATION
M. Vaccaro, Roma
- 12.05 ID 352 • CHARACTERIZATION OF A 3D VOXEL SOFTWARE FOR 131I AND 177LU RADIONUCLIDE THERAPY DOSIMETRY
E. Richetta, Torino
- 12.10 ID 422 • IN SITU CALIBRATION OF THE OPBG IONIZATION CHAMBER FOR I-131
S. Donatiello, Roma
- 12.15 ID 33 • QUANTITATIVE IMAGING FOR 131I METASTATIC THYROID LESION DOSIMETRY
E. Richetta, Torino

SALA 4 Sessione Professionale

8.30 AIFM Giovani

9.00 Tavola Rotonda

Competenze ed aggiornamento professionale nell'era degli ordini.

Sessione di Comunicazioni Orali • Moderatori: *R. Castriconi, Milano - G. Loi, Novara*

- 10.30 ID 388 • FLASH AND MINI-BEAM EFFECTS: TOWARDS A COMBINED APPROACH?
J. H. Pensavalle, Pisa
- 10.35 ID 327 • PERFORMANCE OF A KNOWLEDGE-BASED RADIOTHERAPY MODEL AND A SPECIFIC SEMI-AUTOMATIC RADIOTHERAPY RADIOSURGERY FOR THE GLIOBLASTOMA DISEASE SITE
P. Gallo, Milano
- 10.40 ID 373 • CHARACTERIZATION OF A PATIENT SPECIFIC PRE-TREATMENT QA SOFTWARE
I. Cupparo, Firenze
- 10.45 ID 226 • MRI-BASED ATLAS OF PROSTATIC BED RECURRENCE IN PROSTATE CANCER PATIENTS: CONSISTENCY IN RELATION TO CTV GUIDELINES
I. Avanzolini, Roma
- 10.50 ID 20 • RAPIDPLAN MODEL TRAINING AND VALIDATION FOR BREAST IRRADIATION
V. Rosso, Bergamo
- 10.55 ID 83 • DOSIMETRIC FEASIBILITY OF VMAT-TBI TREATMENTS
A.F. Monti, Milano
- 11.00 ID 134 • ONLINE ADAPTIVE MRGR T DIFFUSION WEIGHTED DRIVEN: A PHANTOM STUDY FOR THE CLINICAL IMPLEMENTATION
M. Nardini, Roma
- 11.05 ID 182 • INFLUENCE OF THE 4D ROBUST PLANNING APPROACH ON THE COMPARISON BETWEEN PHOTON AND PROTON FOR THE TREATMENT OF STAGE III LUNG CANCER: A DOSIMETRIC AND RADIOBIOLOGICAL STUDY
F. Fracchiolla, Trento
- 11.10 ID 36 • CLINICAL VALIDATION OF AN AUTOMATIC IMAGE SEGMENTATION SYSTEM BASED ON DEEP LEARNING FOR ITS INTEGRATION IN THE HEAD AND NECK RADIOTHERAPY WORKFLOW
L. L. Vigna, Novara

- 11.15 ID 58 • TUNING OF LEXICOGRAPHIC OPTIMIZATION-BASED PLANNING FOR CERVICAL CANCER:
HOW FAR CAN WE GO?
P. Caricato, Monza

Sessione di Comunicazioni Orali • Moderatori: *S. Cargnel, Venezia - A. Vaiano, Firenze*

- 11.30 ID 135 • CAN WE REDUCE TREATMENT MARGINS IN APICAL LUNG LESIONS FOR MAGNETIC RESONANCE
GUIDED SBRT? A MOTION AND DOSIMETRIC EVALUATION
M. Galetto, Roma
- 11.35 ID 167 • STEREOTACTIC ARRHYTHMIA RADIOABLATION IN EUROPE: THE ITALIAN SITUATION
IN THE TREATMENT PLANNING BENCHMARK OF THE STOPSTORM CONSORTIUM
V. Trojani, Reggio Emilia
- 11.40 ID 406 • CUTTING-EDGE A-SI:H DOSIMETER TO OPERATE IN VERY DEMANDING RADIOTHERAPY
APPLICATIONS
C. Talamonti, Firenze
- 11.45 ID 308 • EVALUATION OF A MODEL BASED DOSE CALCULATION ALGORITHM FOR SKIN INTERVENTIONAL
RADIATION THERAPY (BRACHYTHERAPY)
L. Breschi, Roma
- 11.50 ID 310 • RE-IRRADIATION OF BRAINSTEM: VOXEL-WISE DOSE SUMMATION AND RADIATION RELATED
TOXICITY
G. Cattaneo, Milano
- 11.55 ID 108 • OVERCOMING THE PTV APPROACH TOWARDS ROBUST OPTIMIZATION IN RADIOTHERAPY
TREATMENT PLANNING: A NOVEL STRATEGY FOR VMAT TREATMENT OF LYMPH NODAL OLIGOMETASTATIC
PROSTATE CANCER
A. Radiosa, M. G. Vincini - Milano
- 12.00 ID 189 • CHARACTERIZATION OF THE FIRST PROTOTYPE OF RANGE VERIFICATION SYSTEM
FOR AN INNOVATIVE SUPERCONDUCTING ION GANTRY
S. Ranjbar, Torino
- 12.05 ID 259 • PARTIAL BREAST IRRADIATION IN SINGLE FRACTION FOR ABLATIVE PREOPERATIVE RT
ON EARLY-STAGE BREAST CANCER USING CYBERKNIFE: PRELIMINARY RESULTS
G. Ronci, Milano
- 12.10 ID 299 • CLINICAL IMPLEMENTATION OF ROBUST VMAT TREATMENT WORKFLOW FOR CRANIO-SPINAL
RADIOTHERAPY IN MEDULLOBLASTOMA PATIENTS
E. De Martin, Milano
- 12.15 ID 269 • VMAT PLANNING FOR REMOTE AUDIT VERIFICATION
M. Guernieri, Udine

ELENCO POSTER

- ID 302 ITALIAN SURVEY OF THE AIFM TASK GROUP ON THE MANAGEMENT OF PATIENTS WITH CARDIAC IMPLANTABLE DEVICES DURING RADIATION THERAPY (GDL CIED)
M. Severgnini, Trieste
- ID 343 TECHNICAL FEASIBILITY OF LINAC-BASED TREATMENT PLANNING FOR STEREOTACTIC VENTRICULAR ARRHYTHMIA RADIOABLATION IN PATIENTS WITH VENTRICULAR TACHYCARDIA
G. Benecchi, Parma
- ID 384 A MULTI-SCALE APPROACH TO THE FLASH EFFECT MODELING
V. Tozzini, Pisa
- ID 338 SENESCENCE, METABOLIC ACTIVITY AND APOPTOSIS IN PRIMARY AND TUMORAL CELL LINES FOLLOWING FLASH AND CONVENTIONAL RADIOTHERAPY
M. Costa, Pisa
- ID 152 MINIBEAM RADIATION THERAPY FOR PRECLINICAL RESEARCH: MONTE CARLO SIMULATIONS AND EXPERIMENTAL VALIDATION
P. Russo, Napoli
- ID 215 ANALYSIS OF INTRA-TREATMENT SETUP VERIFICATION VECTORS IN PEDIATRIC PARTICLE THERAPY WITH ESTIMATION OF DOSIMETRIC IMPACT IN WORST-CASE SCENARIOS
M. Pepa, Pavia
- ID 112 CLINICAL IMPLEMENTATION OF A LOG FILE-BASED MACHINE AND PATIENT QA SYSTEM FOR IMRT AND VMAT TREATMENT PLANS
V. Silvestri, Potenza
- ID 325 DOSIMETRIC CHARACTERIZATION OF DOUBLE NETWORK FRICKE HYDROGEL BASED ON POLY(VINYL-ALCOHOL)/PHENYLALANINE-DERIVATIVES FOR CLINICAL PRACTICE
S. Gallo, Milano
- ID 296 EVALUATION OF PATIENT-SPECIFIC QUALITY ASSURANCE TEST WITH IBA DOSIMETRY DOLPHIN-COMPASS™ SYSTEM IN H&N RADIATION TREATMENTS
L. Mantovani, Pavia
- ID 145 IMPLEMENTATION OF THE IAEA TRS-483 FIELD OUTPUT CORRECTION FACTORS: DOSIMETRIC IMPACT ON CLINICAL STEREOTACTIC VMAT PLANS
A. Savini, Teramo
- ID 221 A MONO-INSTITUTIONAL EXPERIENCE OF FIELD-IN-FIELD 3D-CRT PLANNING IN BREAST RADIOTHERAPY WITH FAST AND FAST-FORWARD PROTOCOLS
S. Carminati, Milano
- ID 366 GEOGRAPHICAL MISS EVALUATION IN CBCT-GUIDED MULTIFOCAL SBRT FOR PELVIC LYMPH NODE OLIGOMETASTASES
R. Raso, Catanzaro
- ID 29 SELECTIVE SPARING OF RECTUM/BLADDER SUB-REGIONS ASSOCIATED TO INCREASED RISK OF LATE TOXICITY AFTER PROSTATE CANCER RADIOTHERAPY BY MULTI-CRITERIA OPTIMIZATION
R. Castroni, Milano

- ID 150 TATOOLESS APPROACH ACCURACY FOR WHOLE BREAST RADIOTHERAPY TREATMENTS
C. Marino, Misterbianco (CT)
- ID 217 MONTE CARLO EVALUATION OF SKIN ABSORBED DOSE IN IOERT AND USE OF ATTENUATING MATERIALS
S. Andreoli, Bergamo
- ID 318 CYBERKNIFE ULTRA-HYPOFRACTIONATED SBRT FOR LOCALIZED PROSTATE CANCER WITH DOSE-ESCALATION TO THE DOMINANT INTRAPROSTATIC LESION: IN-SILICO PLANNING STUDY
E. Rondi, Milano
- ID 274 INTER AND INTRAFRACTION SETUP ERROR FOR BREAST CANCER PATIENT WITH ALIGNRT SGRT SYSTEM
L. Verzellesi, Reggio Emilia
- ID 57 RELIABILITY ASSESSMENT OF GEL DOSIMETRY FOR PRE-TREATMENT EVALUATIONS IN STEREOTACTIC RADIOTHERAPY: A PILOT SCALE CAMPAIGN
G. Magugliani, Milano
- ID 85 AUTOMATIC TOMOTHERAPY-BASED TMI PLANNING USING GPS SCRIPT ON RAYSTATION PLATFORM
S. Agostinelli, Genova
- ID 128 A NEW PARAMETER TO EVALUATE THE DOSIMETRIC IMPACT OF GASTRO-INTESTINAL GAS POCKETS DURING MRGRT
G. Meffe, Roma
- ID 137 TOTAL MARROW LYMPHOID IRRADIATION USING VMAT TECHNIQUE AND EXTENDED LONGITUDINAL CONE BEAM CT IMAGING
G. D'Onofrio, Pescara
- ID 379 ELEKTA TREATMENT COUCH MODELING WITH PINNACLE AND MONACO TREATMENT PLANNING SYSTEMS
M. Casati, Firenze
- ID 175 SURVEY OF AIFM BRACHIT WORK GROUP ON BRACHYTHERAPY PRACTICE IN ITALY
G. Rinaldin, Treviso
- ID 291 IMAGE-GUIDED ADAPTIVE BRACHYTHERAPY (IGABT) IN LOCALLY ADVANCED CERVICAL CANCER (LACC): SINGLE INSTITUTION EVOLUTION OF PRACTICE
C. Tenconi, Milano
- ID 309 MACHINE LEARNING FOR PREDICTING CLINICIAN EVALUATION OF TREATMENT PLANS FOR LEFT-SIDED WHOLE BREAST RADIOTHERAPY
S. Comi, Milano
- ID 312 MRI-LINAC PATIENT QA: PER BEAM AND REGION OF INTEREST SPECIFIC GAMMA ANALYSIS EVALUATION
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- ID 313 CLINICAL USE OF A COMMERCIAL SYSTEM PER DAILY QA PATIENT TREATMENT
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- ID 324 COMMISSIONING OF AN INDEPENDENT DOSE CALCULATION SOFTWARE FOR VMAT TREATMENTS
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- ID 241 ADVERSE EVENTS IN RADIOTHERAPY: A STANDARDIZED IN-HOUSE REPORTING DATABASE FOR ACCIDENTAL EVENTS AND NEAR MISS
R. Bampi, La Spezia
- ID 131 DOSIMETRIC IMPACT OF SETUP ERRORS IN SINGLE-ISOCENTER VMAT RADIOSURGERY FOR BRAIN METASTASES
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- ID 350 DOSE RECONSTRUCTION FOR VMAT TREATMENT PLANS USING CBCT AND MACHINE LOG-FILE: PRELIMINARY RESULTS
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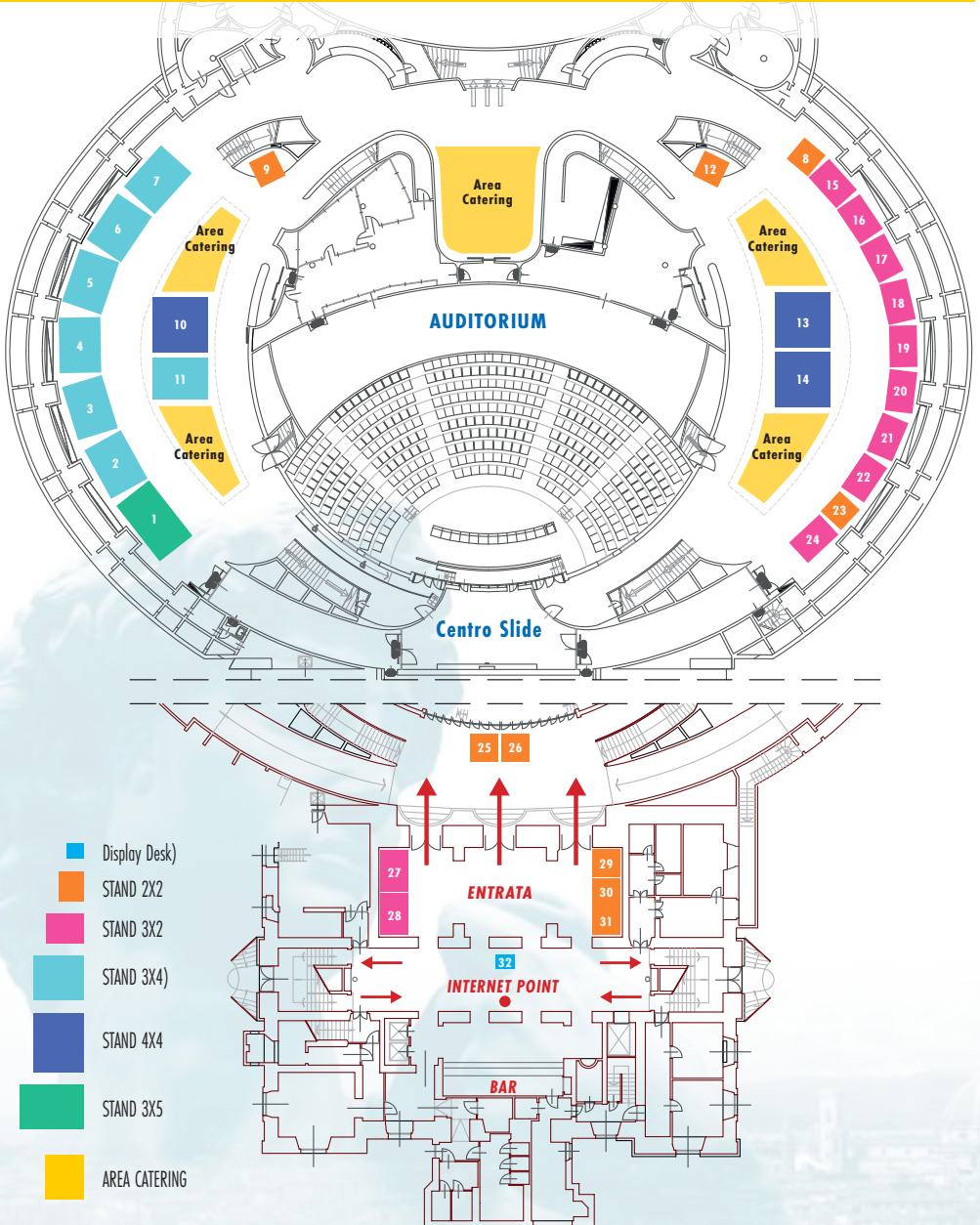
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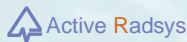
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