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| Clinical medical physics 1. Medical imaging1. Quantitative Analysis
2. Registration (CT, MR, SPECT, PET, Ultrasound)
3. Medical Signal and Image Processing
4. Development of Reconstruction Algorithm
5. Advanced medical imaging protocols in MRI and CT for early detection and following treatment
6. Dose optimization in medical imaging
7. Image quality and Image Reconstruction Techniques
8. Neuroimaging
9. Molecular imaging
10. Artificial Intelligence

2. Radiobiology, Dosimetry and protection 1. Stem cells in radiotherapy
2. The tumor microenvironment and cellular hypoxia responses
3. Combined radiotherapy and chemotherapy
4. Biological individualization of radiotherapy
5. Biological response modification of normal tissue reactions
6. Second cancers after radiotherapy
7. Radiation protection

3. Radiotherapy 1. Dosimetry (e.g.: EPID Dosimetry, Thermo Luminescent Dosimetry …)
2. Structural Shielding Design
3. Optimization in treatment plan
4. New Technique in Radiotherapy (e.g.: IMRT, VMAT, IGRT…)
5. Imaging in Radiotherapy (CT, MR, PET, …)
6. Development of equipment (Fixation, Protection, Breath Gating, …)
7. Monte Carlo Simulation
8. Artificial Intelligence

4. Non-ionizing radiation in diagnosis and treatment 1. Light and laser
2. Ultrasound
3. Hyperthermia
4. Plasma
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