| Monday, ICCR 1 | Monday, ICCR 2 | Tuesday, ICCR 1 | Tuesday, ICCR 2 | Wednesday, ICCR 1 | Wednesday, ICCR 2 | Wednesday, MCMA 1 | Thursday, ICCR 1 | Thursday, MCMA 1 | Thursday, MCMA 2 | Friday, MCMA 1 | Friday, MCMA 2 |
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| ICCR Registration Open 7:30 am - 9:00 am  |  |  | MCMA Registration Open 7:30 am - 7:45 am  | MCMA Registration Open 7:30 am - 10:30 am  |  |  |  |  |  |
| Teaching 1 7:45 am - 8:20 am  | Teaching 2 7:45 am - 8:20 am  | Teaching 3 7:45 am - 8:20 am  | Teaching 4 7:45 am - 8:15 am  |  |  |  |  |  |
|  | Keynote Lecture: Magdalena Bazalova-Carter 8:00 am - 8:45 am Monte Carlo Methods in Radiotherapy Innovations | Keynote Lecture: Jan Schuemann 8:00 am - 8:45 am Multi-scale Monte Carlo Simulations and Applications in Treatment Planning |
| Outcomes-driven Treatment Planning 8:25 am - 10:15 am Invited speaker - Joe Deasy | Optimization II 8:25 am - 10:15 am  | ICCR Rising Stars Competition 8:25 am - 10:10 am  |  |
| Outcomes & Radiobiological Applications II 8:30 am - 10:15 am Invited speaker - Issam El-Naqa |
| Invited Speaker - Francesc Salvat 8:45 am - 9:15 am  | Invited Speaker - Susanna Guatelli 8:45 am - 9:15 am  |
| Official Opening 9:00 am - 9:15 am  |
| Keynote Lecture: Yoshua Bengio 9:15 am - 10:15 am Deep Learning | Monte Carlo Codes, Physics & Data 9:15 am - 10:15 am  | Monte Carlo Codes, Physics & Data 9:15 am - 10:15 am  | Invited Speaker - Issam El Naqa 9:15 am - 9:45 am  |
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| Microdosimetry & Applications in Radiotherapy 9:45 am - 10:55 am  | Microdosimetry & Applications in Radiotherapy 9:45 am - 10:55 am  |
| Networking Break 10:10 am - 10:40 am  |
| Networking Break 10:15 am - 10:45 am  | Networking Break 10:15 am - 10:45 am  | Networking Break & MCMA Posters 10:15 am - 10:45 am  |
| Motion, Deformation, Tracking 10:40 am - 12:30 pm Invited speaker - Kristy Brock | Auto-segmentation 10:40 am - 12:30 pm  |  |
| Deep Learning (I) Outcomes, Diagnosis, Prediction 10:45 am - 12:30 pm Invited speaker - Harini Veeraraghavan | Workflow and Clinical Management 10:45 am - 12:30 pm Invited speaker - Nadia Lahrichi | Radiomics and Machine Learning I 10:45 am - 12:30 pm Invited speaker - Mathieu Hatt | Big Data I 10:45 am - 12:30 pm Invited speaker - David Jaffray | MCMA Rising Stars Competition 10:45 am - 12:30 pm  |  |  |  | Networking Break & MCMA Posters 10:55 am - 11:15 am  |
| Software Development 11:00 am - 12:00 pm  | Invited Speaker - Alan Nahum 11:00 am - 11:30 am  |
| Invited Speaker - Lydia Maigne 11:20 am - 11:50 am  |
| Dosimetry 11:30 am - 12:30 pm  | Dosimetry 11:30 am - 12:30 pm  |
| Medical Imaging 11:50 am - 12:40 pm  | Medical Imaging 11:50 am - 12:40 pm  |
| ICCR Closing Remarks 12:00 pm - 12:30 pm  |
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| Lunch 12:30 pm - 1:30 pm in the Exhibit Hall | Lunch 12:30 pm - 1:30 pm in the Exhibit Hall | Lunch 12:30 pm - 1:30 pm in the Exhibit Hall | Lunch 12:30 pm - 1:30 pm  |
| Lunch 12:45 pm - 1:20 pm  |
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| Invited Speaker - Rowan Thomson 1:25 pm - 1:55 pm  |
| Deep Learning (II) Image Processing 1:30 pm - 2:55 pm  | Optimization I 1:30 pm - 2:55 pm  | [Keynote Lecture: Ilya Shpitser](http://iccr-mcma.org/featured-speakers-at-iccr/%22%20%5Cl%20%22shpitser%22%20%5Co%20%22Keynote%20Lecture%3A%20Ilya%20Shpitser) 1:30 pm - 2:15 pm Causal Inference and Applications in Medicine and Radiotherapy | [Keynote Lecture: Joelle Pineau](http://iccr-mcma.org/featured-speakers-at-iccr/%22%20%5Cl%20%22pineau%22%20%5Co%20%22Keynote%20Lecture%3A%20Joelle%20Pineau) 1:30 pm - 2:30 pm Monte Carlo and Machine Learning in radiotherapy treatment planning |  | Invited Speaker - Brigitte Reniers 1:30 pm - 2:00 pm  |
|  | Invited Speaker - Anna Celler 1:55 pm - 2:25 pm  |
|  | Brachytherapy 2:00 pm - 2:45 pm  | Brachytherapy 2:00 pm - 2:45 pm  |
| Algorithms 2:20 pm - 3:00 pm  | Automated Planning & Methods 2:20 pm - 3:00 pm  |  | Nuclear Medicine 2:25 pm - 2:45 pm  | Nuclear Medicine 2:25 pm - 2:45 pm  |
| Plenary Session: Shirin A. Enger 2:30 pm - 3:00 pm Monte Carlo based Treatment Planning in Brachytherapy |  |
|  | Networking Break & MCMA Posters 2:45 pm - 3:10 pm  | Networking Break & MCMA Posters 2:45 pm - 3:20 pm  |
| Networking Break 3:00 pm - 3:15 pm  | Networking Break 3:00 pm - 3:15 pm  | Networking Break & MCMA Posters 3:00 pm - 3:15 pm  |  |
| Moderated Poster Session 3:15 pm - 4:00 pm  | Moderated Poster Session 3:15 pm - 4:00 pm  | Moderated Poster Session 3:15 pm - 4:00 pm  |  |  | Invited Speaker - Anders Ahnesjö 3:15 pm - 3:45 pm  |
| Machine Learning & Monte Carlo 3:30 pm - 4:10 pm  |  | Invited Speaker - G.A. Pablo Cirrone 3:35 pm - 4:05 pm  |
|  | Invited Speaker - Javier Vijande 3:55 pm - 4:25 pm  |
| Deep Learning (III) Applications in Image Processing and Dose Modelling 4:00 pm - 5:10 pm  | Ontologies - Mark Phillips Special Session 4:00 pm - 5:10 pm  | Radiomics and Machine Learning II 4:00 pm - 5:10 pm  | Big Data II 4:00 pm - 5:10 pm Big Data II | Outcomes & Radiobiological Applications I 4:00 pm - 5:10 pm Invited Speaker - Tiziana Rancati | Big Data III 4:00 pm - 4:30 pm Invited speaker - Chuck Mayo |  | Particle Therapy 4:05 pm - 4:45 pm  | Particle Therapy 4:05 pm - 4:45 pm  |
| Invited Speaker - Iwan Kawrakow 4:15 pm - 4:45 pm  |  | Invited Speaker - Indrin Chetty 4:25 pm - 4:55 pm  |
| Big Data Panel Discussion 4:30 pm - 5:10 pm  |  |
| Parallel Monte Carlo Implementations 4:45 pm - 5:15 pm  |  | Treatment Planning & Evaluation, Radiation Sources & Beams 4:45 pm - 5:35 pm  | Treatment Planning & Evaluation, Radiation Sources & Beams 4:45 pm - 5:35 pm  | Invited Speaker - Jan Seuntjens 4:50 pm - 5:20 pm  |
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|  |  |  |  | Sponsored Talk 5:15 pm - 6:15 pm  |  |  | MCMA Closing Remarks 5:20 pm - 5:35 pm  |
| Welcome Reception 5:30 pm - 7:00 pm Exhibition, Poster Viewing, Cocktails |  |  |  |  |
|  |  |  |  | Networking Reception 5:45 pm - 7:00 pm Exhibition, Poster Viewing, Cocktails |  |  |
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|  |  |  |  | Conference Dinner 7:30 pm - 11:00 pm Montreal Science Centre |  |  |  |  |  |
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