| 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/" \l "shpitser" \o "Keynote Lecture: Ilya Shpitser)  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/" \l "pineau" \o "Keynote Lecture: Joelle Pineau)  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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