

European Conference on the Impact of AI and Robotics (ECIAIR 2019)
31 October - 1 November 2019
EM-Normandie Business School, Oxford City College, Oxford, OX1 1SA, UK

Wednesday 30th October

18:30 Welcome drinks and pre-conference registration (Until 19:30) - 40 George Street, Oxford OX1 2AQ

Thursday 31st October

08:30 Registration and coffee
Main Campus Entrance (Dorn Building)

09:15 Welcome and Opening
Theatre - Kennet Building (2nd floor)

09:30 **Keynote presentation:** Dr Mariano E. Giménez. University of Strasbourg, France
Hybrid Operating Rooms and Image-Guided Surgery, the way to Automation

10:30 *Conference splits into streams - Jericho Building - 2nd floor
(Conference desk moves to Room J205)*

| | Room: J 201 Stream A: Risk and Disruptive AI Chair: Keith Scott | Room: J 202 Stream B: Mini track on AI in Education Chair: Malie Zeeman | Room: J 217 Stream C: Impacts of AI Chair: Elena Serova | Room: J 219 Stream D: Mini track on AI for Strategy and Innovation Chair: Francesca Dal Mas, Maurizio Massaro and Mitt |
|--------------|---|---|--|--|
| 10:45 | Is Artificial Intelligence Disruptive? Polunina Olga, Russian State Social University, Moscow, Russia | Whether and how Artificial Intelligence Will Change Education and the School System Kakolewicz Mariusz, Adam Mickiewicz University of Poznan, Poland | The Impact of AI on Employment and Organisation in the Industrial Working Environment of the Future Franken Swetlana and Malte Wattenberg , Bielefeld University of Applied Sciences, Germany | The Effects of Artificial Intelligence, Robotics and Industry 4.0 Technologies from the Healthcare Sector Dal Mas Francesca, Universita degli Studi di Roma La Sapienza, Rome, Daniele Piccolo , Nucleode srl, Italy, Lorenzo Cobianchi , Universita degli Studi di Pavia, Italy, Leif Edvinsson , New Club of Paris, Vienna, Austria and Gareth Presch , World Health Innovation Summit, UK |
| 11:15 | AI in Smart Cities Development: A Perspective of Strategic Risk Management Rodriguez Eduardo, University of Wisconsin Stevens Point, USA and John Edwards , Aston University, Birmingham, UK | Artificial Intelligence in Education: a Promise, a Threat or a Hype? Humble Niklas and Peter Mozelius , Mid Sweden University, Sweden | Blockchain Technology Innovation Use-Cases in the Agriculture Sector: A Systematic Review Sethibe Tebogo, Agriculture Research Council, Pretoria, South Africa | Robotics and Artificial Intelligence (R+AI) Solutions: Displacing or Augmenting Professional Capabilities? Rivera-Hernaiz Olga, Jose Miguel Zaldo , Deusto Business School, Donostia-San Sebastián, David Lopez , ESAD, Barcelona, Spain |
| 11:45 | A Stochastic Dynamics Model for Shaping Stock Indexes Considering Self-Organization Processes, Memory and Oscillations Dmitry Zhukov , Russian Technological University (MIREA), Khvatova Tatiana, Peter the Great St. Petersburg Polytechnic University, Russia and Leonid Istratov , Lappeenranta University of Technology, Finland | Innovative Approaches in Russian Education: A Model of Adaptive Learning Process Based on Artificial Intelligence Bataev Alexey, Peter the Great St. Petersburg Polytechnic University, Alexandr Gorovoy , St Petersburg National University of Information Technologies, and Olga Zaborovskaia , State Institute of Economics, Finance, Law and Technology, Gatchina, Russia | Artificial Intelligence Policy in China: Implications and Challenges Al-Sayed Rafif and Jianhua Yang , University of Science and Technology Beijing, China | The AI Conveyor Belt Gopali Nilesh and Hasik Shetty , Aavor Ltd, Mumbai, India (Non-academic) |

12:15 *Lunch: Waterside restaurant - Brent Building*

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| | Room: J 201 Stream A: Mini track on the Malicious Use of AI Chair: Evgeny Pashentsev | Room: J 202 Stream B: Mini track on AI in Education Chair: Larry Crockett | Room: J 217 Stream C: PhD Session Chair: Dr Dan Remenyi | Room: J 219 Stream D: AI and Robotics Chair: Jim Chen |
| 13:15 | Malicious Use of Artificial Intelligence: Challenging International Psychological Security Pashentsev Evgeny, Diplomatic Academy at the Ministry of Foreign Affairs of the Russian Federation, Moscow, Russia | Artificial Intelligence-Based and Digital Transformation Strategy for Educational Institutes Kabir Mitt Nowshade, Trouvus, Toronto, Canada | Teacher's activity when adapting digital learning objects (in the context of foreign language learning in higher education) Sukackė Vilma and Brigita Janiūnaitė , Kaunas University of Technology, Lithuania | JELLYBEANBOT: A Dynamic Low Cost Robotics Shield for Education Botes Romeo, North West University, Vanderbijlpark, South Africa |
| 13:45 | Possible use of AI Technologies in Counterterrorism Responses by the Iraqi Security Establishment Ramanouski Vitali, Diplomatic Academy of the Russian Foreign Ministry, Moscow, Russia | Towards a Framework for Effective Instructor-AI Collaboration in Education Ala Mamun and Danilo Wegner , Australian Institute of Business, Adelaide, Australia | Personalized Virtual Employee Assistant (VEA) using IOT Recommender System and Cognitive Computing Bokharaei Nia Mona and Mohammadali Afshar Kazemi , Islamic Azad University, Tehran, Iran | Case-Based Reasoning (CBR) and Robotics Demigha Souad, CRI University of Paris 1 Sorbonne, France |
| 14:15 | Terrorism and Deepfake: From Hybrid-Warfare to Post-Truth Warfare in a Hybrid World Antinori Arije, "Sapienza" University of Rome, Italy | Teacher-Supported AI or AI-Supported Teachers? Humble Niklas and Peter Mozelius , Mid Sweden University, Sweden | | Attitudes of the Net Generation when Learning to Programme Robotics Botes Romeo and Imelda Smit, North-West University, South Africa |
| 14:45 | <i>Refreshments</i> <i>Room: J205</i> | <i>Refreshments</i> <i>Room: J205</i> | <i>Refreshments</i> <i>Room: J205</i> | <i>Refreshments</i> <i>Room: J205</i> |
| | Room: J 201 Stream A: Human interaction Chair: Clarence Tan | Room: J 202 Stream B: Mini track on AI in Education Chair: Peter Mozelius & Niklas Humble | Room: J 217 Stream C: Emerging Technologies Chair: Helena Webb | |
| 15:15 | Racist Soapdishes and Rebellious (?) Children: Towards Human/AI Cooperation Scott Keith, De Montfort University, Leicester, UK | Measuring Computer Science Students' Acceptance of Arduino Micro Development Boards as a Teaching Tool Botes Romeo and Malie Zeeman , North West University VTC, South Africa | AI, RPA, ML and other Emerging Technologies: Anticipating the Adoption in the HRM Field Saukkonen Juha, Pia Kreus , JAMK University of Applied Sciences, Finland, Oscar Rodríguez Ruiz , Universidad Complutense de Madrid, Spain and Nora Obermayer , Pannonia University, Hungary | |
| 15:45 | Who Should Be the Boss? Machines or a Human? Chen Jim, US National Defense University, Fort McNair, Washington DC, USA | eLearning, Artificial Intelligence and Blockchain Vieira Paulo, Paul Crocker and Simão Melo de Sousa , University of Beira Interior, Covilhã, Portugal | Digital Transformation and the EU Labour Markets Suciu Marta-Christina, Bucharest University of Economic Studies, Elena Pelinescu , Institute of Economic Forecasting, Bucharest, Mirela Cristea , University of Craiova and Gratiela Georgiana Noja , West University of Timisoara, România | |
| 16:15 | A private showing of the Netflix Film "The Great Hacked" - The Story of Cambridge Analytica Theatre - Kennet Building - 2nd floor | | | |
| 18:30 | <i>Close of Conference Day</i> | | | |
| 19:30 | Conference Dinner at The Jam Factory - 4 Hollybush Row, Oxford OX1 1HU | | | |

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| | Friday 1st November | | | |
| 09:00 | Room: Kennet Building - Theatre - 2nd floor Opening Messages | | | |
| 09:05 | Keynote presentation: Dr Mitt Nowshade Kabir Artificial General Intelligence, Consciousness and the Future of AI | | | |
| 09:50 | Introduction to ECI AIR 2020 | | | |
| 10:00 | Room: J205 Poster contributors stand by their posters for others to discuss the research and Refreshments | | | |
| | Room: J 201 Stream A: Mini Track on AI and Cybersecurity Chair: Char Sample | Room: J 202 Stream B: Analysis Chair: Olga Rivera-Hernaez | Room: J 217 Stream C: Mini track on Ethics and AI Chairs: Caroline Stockman | Room: J 219 Stream D: AI in the Workplace Chair: Marta Cristina Suci |
| 10:30 | Integrating Machine Learning Algorithms in the Engineering of Weaponized Malware Easttom Chuck, Capitol Technology University, Plano, USA | An Approach for Enterprise Architects to Analyse Opportunities and Constraints for Applying Artificial Intelligence in Military Transformations Mattila Juha, Aalto University, Helsinki, Finland and Simon Parkinson , RMIT University, Melbourne, Australia | The Quest for Explainable AI and the Role of Trust Gerdes Anne, University of Southern Denmark, Kolding, Denmark | Systematic Literature Review of AI Adoption in Business and Management: A Tertiary Study Cubric Marija, University of Hertfordshire, UK (presentation only) |
| 11:00 | Meet the Machine: Welcome to Your Cyborg Future Williams Colin, University of Warwick, Coventry, UK (Presentation only) | A Responsive Engagement Approach to Promote the Development of 'Fairer' Algorithms Webb Helena, Menisha Patel , Marina Jirotk a, University of Oxford, Alan Davoust , Université du Québec en Outaouais, Canada, Michael Rovatsos , University of Edinburgh and Ansgar Koene , University of Nottingham, UK | AI Ethics: The Thin Line Between Computer Simulation and Deception Crockett Larry, Augsburg University, Minneapolis, USA | RethinkAI™: Designing the Impact of AI in the Future of Work Lalioti Vali, Royal College of Arts, London, UK |
| 11:30 | Artificial Intelligence, Knowledge Management and Human Vulnerability Kingston John, Nottingham Trent University, Nottingham, UK | Proposition to Use System Dynamics for Assessing the Impact of New Technologies on Employment Zaldo Jose Miguel, Olga Rivera-Hernaez , Deusto Business School, Bilbao and Juan Martin Garcia , ATC Innova, Barcelona, Spain | Choice, Agency and Dignity in the Age of Artificial Intelligence Murakami Yuko, Rikkyo University, Toshima-Ku, Tokyo, Japan | A Bibliometric Analysis Deconstructing Research on How Digitalization Transforms Knowledge Worker Autonomy Isegran Henry August, Mats Kuvene and Karl Joachim Breunig , Oslo Business School, Oslo Metropolitan University, Norway |
| 12:00 | Training Data and Rationality Merinas Konstantinos, Royal Holloway University London, UK, Char Sample , ICF Inc., Ellicott City, USA, Jonathan Bakdash , US Army Research Laboratory, US ,Theresa Sobb , University of New South Wales and David Ormrod, Campbell Australia | Will Robots have the Capacity to Replace Mankind? Empirical Analysis from Portugal Rombão Mafalda and Eduardo Tome , Universidade Europeia, Portugal | Requirements for making the MQ-9 Fully Autonomous: An Anticipatory Ethical Analysis Wilson Richard, Towson University, USA | |
| 12:30 | Lunch: Brent Building - Waterside restaurant | | | |

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| 13:30 | Law Enforcement use of Artificial Intelligence for Domestic Security: Challenges and Risks Watney Murdoch , University of Johannesburg, South Africa | Artificial Intelligence for Analysis of Collaborative Consumer Networks Management Serova Elena , National Research University Higher School of Economics, St. Petersburg, Russia | Harnessing Interdisciplinarity to Promote the Ethical Design of AI Systems Menisha Patel , Helena Webb , Marina Jirotko , University of Oxford, UK and Alan Davoust , Université du Québec en Outaouais, Canada | |
| 14:00 | An Overview of Artificial Intelligence for Cybersecurity Sample Char , Emily Darraj , Capitol Technology University, Ellicott City and Connie Justice , Indiana University at Purdue, USA (Round Table) | Case-Based Reasoning (CBR) and Neural Networks for Complex Problems Demigha Souad , CRI University of Paris 1 Sorbonne, France | AI, Business, Short and Long Term Developments: An Anticipatory Ethical Analysis Wilson Richard , Towson University, USA | |
| 14:30 | Kennet Building - Theatre - 2nd floor Panel of Philosophers: What limits should humans set on Artificial Intelligence? Chaired by Paul Griffiths and panelists include: Prof Ryan Meade, Dr Barbara Prentiss, Dr Kanan Purkayastha, Prof Dan Remenyi | | | |
| 15:15 | <i>Winners of the Poster competition is announced</i> | | | |
| 15:30 | Summary and Close of the Conference | | | |
| | Posters will be displayed from Thursday afternoon until lunchtime on Friday Poster Presenters will stand by their posters at 10:00 on Friday to present their work to other participants | | | |
| | Posters with a WIP Paper | Invited Posters | | |
| | Using Lo-Fi Prototyping to Envision Conversational Agents in Public Settings Quanjer Arnold-Jan , Antti Jylha and Jos van Leeuwen, The Hague University of Applied Sciences, Netherlands | Speeding up the spread of emerging technologies to the world of work - Practices and calls for action based on Finnish experiences Saukkonen Juha , Maija Haaranen , Kirsi Kemell , Erica Svärd , Mika Rantonen / JAMK University of Applied Sciences, Finland | The Problem of Empowering Learners -- An AI-empowered Smart Classroom Could be the Ultimate Solution Mamun Ala , Australian Institute of Business, Adelaide, Australia | |
| | Ethics in Artificial Intelligence: A Myth that may Never be a Reality Rana Vishal , Australian Institute of Business, Adelaide and Clarence Tan , Griffith University, Australia | The Essence of Business Model Innovation in Start-up Companies Milei Pavel Elena Serova , National Research University Higher School of Economics, St. Petersburg, Russia | Personality, Choice, and Dignity in the age of artificial intelligence Murakami Yuko , Rikkyo University, Toshima-Ku, Tokyo, Japan | |
| | The Impact of Artificial Intelligence on University Cyber Security Programs Sample Char , ICF Inc., Columbia and Connie Justice , Indiana University at Purdue, USA | 'RoboTIPS: Developing Responsible Robots for the Digital Economy' Webb Helena , University of Oxford, UK | | |