

US-EU Workshop on Intelligent Manufacturing

2-4 June 2022 | CIIRC CTU, Prague, Czech Republic



RICAIP



NATIONAL CENTRE
FOR INDUSTRY 4.0



Thursday, 2 June 2022

8.45 – 9.00	Official Opening by the Members of the Organizing Committee: Růžena Bajcsy , University of Berkeley Vladimír Mařík , CIIRC CTU Wolfgang Wahlster , DFKI
9.00 – 9.40	Wolfgang Wahlster , DFKI, Germany: The Next Decade of Industry 4.0
9.40 – 10.20	Spyros Reveliotis , Georgia Tech, US: Real-time Management of Complex Resources
10.20 – 10.35	Small Ceremonies: Medal of University of Žilina awarded to <i>Prof. Růžena Bajcsy</i> by the Rector of the Univ. Žilina <i>Prof. Jozef Jandačka</i> to memorize the <i>Dr.h.c. degree</i> of this University Memorial Medal of CIIRC CTU awarded to <i>Prof. Růžena Bajcsy</i> by the Director of CIIRC CTU <i>Dr. Ondřej Velek</i> Diploma of the Elected Foreign Member of the Engineering Academy of the Czech Republic - <i>Prof. Wolfgang Wahlster</i> overtakes this diploma from <i>Prof. Petr Zuna</i> , President of EA CR
10.35 – 10.55	<i>Coffee Break</i>
10.55 – 11.35	Julian Florez , Vicomtech, Spain: Industry 4.0 Challenge and Trend: Smart Integration of Human in the Loop and Automation
11.35 – 12.20	Jay Lee , University of Cincinnati, US: AI-Augmented Quality Metrology for Industrial Internet-based Production Systems
12.20 – 13.15	<i>Lunch Break</i>
13.15 – 13.45	Vladimír Mařík , CIIRC CTU, Czech Republic: Beyond Industry 4.0 – Building an AI Ecosystem
13.45 – 14.25	Uwe Wieland , VW, Germany: Digital Industry Platforms - Best Practices and Pitfalls for Building a Digital Manufacturing Ecosystem
14.25 – 15.05	Yuan-Shin Lee , North Carolina State Univ., US: Industrial Internet of Things
15.05 -15.25	Peter Ševčík , UNIZA Žilina, Slovakia: Industrial Internet of Things and Their Platforms
15.25 – 15.50	<i>Coffee Break</i>
15.50 – 16.30	Pavel Burget & Petr Kadera , CIIRC CTU, Czech Republic: AI-based Methods to Increase the Production Flexibility and Variability
16.30 – 17.00	Bruce Kramer , NSF, US: NSF Future Manufacturing Program



This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreements No. 857306.



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Friday, 3 June 2022

9.00 – 9.40	Martin Ruskowski , DFKI, Germany: Production Level 4
9.40 – 10.20	Federico Sciammarella , MxD Chicago, US: Digital Manufacturing and Cybersecurity
10.20 – 10.40	<i>Coffee Break</i>
10.40 – 11.20	Růžena Bajcsy , Univ. of Berkeley, US: New Problems in Robotics that Could be of Interest to Industry 4.0
11.20 – 12.00	Nadia Figueroa , UPENN, US: Multiarm Robot and Human Cooperation
12.00 – 12.30	Michael Valášek , FME CTU, Czech Republic: Physically Interconnected Robots Enable New Industrial Applications of Robots
12.00 – 13.30	<i>Lunch Break</i>
13.30 – 14.10	Josef Šivic , CIIRC CTU, Czech Republic: Learning Manipulation Skills from Instructional Videos
14.10 – 14.50	Placid Mathew Ferreira , Univ. of Illinois, Urbana Champaign, US: OSCM: An Operating System for Cloud-based Manufacturing
14.50 - 15.30	Pavel Václavek , CEITEC, TU Brno, Czech Republic: Fail-operational Actuators with Applications in Production Systems and Future Vehicles
15.30 – 15:50	<i>Coffee Break</i>
15.50 – 16.30	Ram Vasudevan , Univ. of Michigan, US: Decision for Large Scale Systems
16.30 – 16.50	Michal Koháni , UNIZA Žilina, Slovakia: Decision Making for Large Scale Systems
16.50	<i>Wrap-up and Conclusions</i>

Saturday, 4 June 2022

Visit to the CIIRC Labs, demonstrations, discussions with researchers



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