WEDNESDAY 4TH November 2015, Old Music Room, St John's College

| 17:30 - 19:30 | Drinks Reception |

THURSDAY 5TH November 2015, Boys Smith Room, Fisher Building, St John's College

08:00 - 08:30	Registration
08:30 - 08:45	Opening Session
08:45 - 09:30	**Plenary Session: "Evolution or Revolution – A Few Thoughts from a Radical Control Freak"** *Craig Battles, Technical Fellow of Robotics and Automation with Boeing Research and Technology, USA*
09:30 - 10:00	Coffee Break
10:00 - 11:20	**TS 1: Applications of Intelligent Products [APIP]**
11:20 - 12:40	**TS 2: Recent Advances in Control for Physical Internet and Interconnected Logistics [PIIL]**
12:40 - 13:40	Lunch
13:40 - 15:40	**TS 3: Sustainability issues in Intelligent Manufacturing Systems [SUSM]**
15:40 - 16:10	Coffee Break
16:10 - 17:50	**TS 4: Holonic and Multi-agent system Design for Industry and Service [HMAD]**
19:30	Gala dinner, Wordsworth Room, St John's College

FRIDAY 6TH November 2015, Boys Smith Room & Castlereagh Room, Fisher Building, St John's College

08:00 - 08:30	Registration	
08:30 - 09:15	**Plenary Session: MAS Technology and SOA Architectures in Industry 4.0: Experiences and Challenges** *Professor Vladimir Marik, Czech Technical University, Prague, Czech Republic*	
09:15 - 09:45	Coffee Break	
09:45 - 11:05	**TS 5: Service Oriented Enterprise Management and Control [SOMC]**	
11:05 - 12:25	**TS 6: Cloud and Computing-oriented Manufacturing [CCOM]**	**TS 7: Smart Grids and Wireless Sensor Networks [SGWN]**
12:25 - 12:35	Closing Session, wrap up	
12:35 - 13:35	Lunch	

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08:45 - 09:30	**Plenary Session: "Evolution or Revolution – A Few Thoughts from a Radical Control Freak"** *Craig Battles, Technical Fellow of Robotics and Automation with Boeing Research and Technology, UK* Chair: Duncan McFarlane, UK

Technical Session 1: Applications of Intelligent Products [APIP] Chair: Vincent Thomson, CA	
10:00-10:20	*Centralized MES with Environment Adaptation for Production of Radiopharmaceuticals,* Silviu Răileanu, Theodor Borangiu and Andrei Silișteanu
10:20-10:40	*Improving the delivery of a building,* Vincent Thomson and Xiaoqi Zhang
10:40-11:00	*Repair Services for Domestic Appliances,* Rachel Cuthbert, Vaggelis Giannikas, Duncan McFarlane and Raj Srinivasan
11:00-11:20	*End-of-Life information sharing for a circular economy: existing literature and research opportunities,* William Derigent and André Thomas

Technical Session 2: Recent Advances in Control for Physical Internet and Interconnected Logistics [PIIL] Chair: Yves Sallez, FR	
11:20-11:40	*The Internet of Things Applied to the Automotive Sector: an Unified Intelligent Transport System Approach,* Valentín Cañas, Andrés García, Jesús Blanco and Javier de las Morenas
11:40-12:00	*Using the Crowd of Taxis to Last Mile Delivery in E-commerce: a Methodological Research,* Chao Chen and Shenle Pan
12:00-12:20	*Framework for Smart Containers in the Physical Internet,* Yves Sallez and Thierry Berger
12:20-12:40	*On the usage of Wireless Sensor Networks to facilitate composition/decomposition of Physical Internet containers,* Nicolas Krommenacker, Patrick Charpentier, Thierry Berger and Yves Sallez

Technical Session 3: Sustainability issues in Intelligent Manufacturing Systems [SUSM]
Chair: Damien Trentesaux, FR

13:40-14:00	*Artifacts and Guidelines for Designing Sustainable Manufacturing Systems,* Adriana Giret and Damien Trentesaux
14:00-14:20	*A human-centered design to break the myth of the « Magic Human » in Intelligent Manufacturing Systems,* Damien Trentesaux and Patrick Millot
14:20-14:40	*Sustainability in Production Systems: A Review of Social Responsibility Issues in Workforce Scheduling,* Carlos Moreno-Camacho and Jairo Montoya-Torres
14:40-15:00	*Identifying the Requirements for Resilient Production Control Systems,* Rengarajan Srinivasan, Duncan McFarlane and Alan Thorne
15:00-15:20	*Requirements verification method for system engineering based on a RDF logic view,* Albéric Cornière, Virginie Fortineau, Thomas Paviot and Samir Lamouri
15:20-15:40	*Approaching Industrial Sustainability Investments in Resource Efficiency through Agent-Based Simulation,* Flavio Tonelli

Technical Session 4: Holonic and Multi-agent system Design for Industry and Service [HMAD]
Chair: Andre Thomas, FR

16:10-16:30	*Increasing dependability by agent-based model-checking during run-time,* Sebastian Rehberger, Thomas Aicher and Birgit Vogel-Heuser
16:30-16:50	*A Synchronous CNP – based Coordination Mechanism for Holonic Manufacturing Systems,* Doru Panescu and Carlos Pascal
16:50-17:10	*Interfacing BDI Agent Systems with Geometric Reasoning for Robotics and Manufacturing,* Lavindra de Silva, Felipe Meneguzzi, David Sanderson, Jack Chaplin, Otto Bakker, Nikolas Antzoulatos and Svetan Ratchev
17:10-17:30	*A holonic manufacturing system for a copper smelter process,* Carlos Herrera, José Rosales, André Thomas and Víctor Parada
17:30-17:50	*A Nervousness regulator framework for dynamic hybrid control architectures,* Jose-Fernando Jimenez Gordillo, Abdelghani Bekrar, Damien Trentesaux and Paulo Leitão

FRIDAY 6TH November 2015, Boys Smith Room & Castlereagh Room (TS7), Fisher Building, St John's College

08:30 - 09:15	**Plenary Session: MAS Technology and SOA Architectures in Industry 4.0: Experiences and Challenges** *Professor Vladimir Marik, Czech Technical University, Prague, Czech Republic* Chair: Theodor Borangiu, RO

Technical Session 5: Service Oriented Enterprise Management and Control [SOMC] Chair: Olivier Cardin, FR	
09:45-10:05	*Automation Services Orchestration with Function Blocks: Web-service Implementation and Performance Evaluation,* Evgenii Demin, Victor Dubinin, Sandeep Patil and Valeriy Vyatkin
10:05-10:25	*An IoT visibility software architecture to provide smart workforce allocation,* Pablo Garcia Ansola, Andrés García and Javier de las Morenas
10:25-10:45	*Virtual commissioning-based development and implementation of a service-oriented holonic control for retrofit manufacturing systems,* Francisco Gamboa Quintanilla, Olivier Cardin, Anne L'Anton and Pierre Castagna
10:45-11:05	*Security Issues in Service Oriented Manufacturing Architectures with Distributed Intelligence,* Cristina Morariu, Octavian Morariu and Theodor Borangiu

Technical Session 6: Cloud and Computing-oriented Manufacturing [CCOM] Chair: Radu Băbiceanu, USA	
11:05-11:25	*Technological Theory of Cloud Manufacturing,* Sylvain Kubler, Jan Holmström, Kary Främling and Petra Turkama
11:25-11:45	*Integrated Scheduling for Make-to-Order Multi-Factory Manufacturing: An Agent-Based Cloud-Assisted Approach,* Iman Badr
11:45-12:05	*Secure and Resilient Manufacturing Operations Inspired by Software-Defined Networking,* Radu Băbiceanu and Remzi Seker
12:05-12:25	*Building a Robotic Cyber-Physical Production Component,* Paulo Leitão and José Barbosa

Technical Session 7: Smart Grids and Wireless Sensor Networks [SGWN] Chair: Petr Skobelev, RU	
11:05-11:25	*Multi-Agent Planning of Spacecraft Group for Earth Remote Sensing,* Petr Skobelev, Elena Simonova, Alexey Zhilyaev and Vitaliy Travin
11:25-11:45	*Ant Intelligent Robot: A Versatile and Low Cost Miniature Mobile Robot Platform for Swarm Robotics Research and Education,* Dan Novischi and Adina Magda Florea
11:45-12:05	*Methodology and Framework for Development of Smart Grid Control,* Gheorghe Florea, Oana Chenaru, Radu Dobrescu, Mircea Eremia and Lucian Toma
12:05-12:25	*Sink Node Embedded, Multi-Agent Systems Based Cluster Management in Industrial Wireless Sensor Networks,* Mohammed Taboun and Robert Brennan