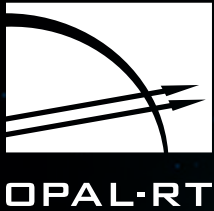


9<sup>th</sup> ANNUAL INTERNATIONAL CONFERENCE  
ON REAL-TIME SIMULATION

SEPTEMBER 5-8 2017 MONTREAL, QC, CANADA

# TECHNICAL PAPER SUBMISSION





# 9<sup>th</sup> ANNUAL INTERNATIONAL CONFERENCE ON REAL-TIME SIMULATION

SEPTEMBER 5-8 2017 MONTREAL, QC, CANADA



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Examples of topics that are of interest include:

### **POWER SYSTEMS AND DISTRIBUTION POWER GRIDS:**

- Onboard power systems
- Power systems control (FACTS, HVDC, etc.)
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- Power generation
- Wide Area Monitoring, Protection and Control (WAMPAC)
- Cybersecurity
- Microgrids, Smartgrids and Renewable energy (DER)
- Substation level control and protection
- SCADA, Monitoring tools
- Modeling and simulation techniques

### **POWER ELECTRONICS:**

- Modular Multilevel Converter design and development
- Electric drives and machines
- PV, Fuel cell, Storage
- FPGA simulation
- Power HIL & Amplifier
- Rapid control prototyping
- Onboard power systems

### **AEROSPACE:**

- More electrical aircraft
- Aircraft-in-the-loop
- HIL and RCP applications
- Virtual aircraft & SIL

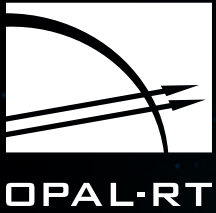
### **ADVANCED EDUCATION AND TRAINING TOOLS:**

- Benefits of HIL teaching
- Teaching methodology
- R&D laboratory center
- Operator training tools

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- Battery management system
- HIL and RCP applications
- Fuel-Cell Hybrid Electric Vehicle
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The paper will be reviewed by a panel of 5 judges from OPAL-RT.



## JEAN BÉLANGER

Co-Founder, CEO  
and CTO

*Jean built OPAL-RT with the vision of bringing high-end real-time simulation tools to all engineers and scientists. Today, under his direction and technological leadership, OPAL-RT has become a world-renown developer of state-of-the-art real-time simulators capable of simulating all types of mechanical and electrical systems. Before founding OPAL-RT, Jean led a successful career at Hydro-Québec and is a fellow of the Canadian Academy of Engineering.*



## TAREK OULD-BACHIR, Ph.D.

Team leader, eMEGAsim  
and Solvers

*Tarek received a M.A.Sc. and Ph.D. degrees in electrical engineering from the École Polytechnique de Montréal, Montreal, QC, Canada, in 2008 and 2013, respectively. He has been an FPGA Application Specialist with Opal-RT and currently leads the eMEGAsim product and the Solvers teams.*



## JEAN-NICOLAS PAQUIN

Head of Division – Studies  
and Specialized Testing

*Jean-Nicolas leads expert services and consulting activities at OPAL-RT. Under his guidance, his multidisciplinary team of experts offers assistance to the industry, by delivering advanced modeling, on-site or in-house testing and power system study services.*



## CHRISTIAN DUFOUR, Ph.D.

Senior Simulation  
Specialist, Power Systems  
and Motor Drives

*Christian Dufour received a Ph.D. degree from Laval University, Quebec, Canada in 2000. He has since been with OPAL-RT Technologies where he is now the lead researcher in power systems and motor drive simulation software, and the main developer of the SSN and ARTEMiS solvers. Before joining OPAL-RT, he also worked on Hydro-Québec's HYPERSIM real-time simulator, as well as MathWorks' SimPowerSystems blockset.*



## VINCENT LAPOINTE

Product Manager

*Vincent received his Master's in Mechanical Engineering from the University of Laval. Having occupied several high-level positions at OPAL-RT, he is now responsible for defining the product strategy, in particular for electric products, and participates in defining the roadmap. He helps ensure that OPAL-RT is continuously innovating and remains ahead of trends.*