



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

NOVEMBER 14-16 2018 PARIS, FRANCE



OPAL-RT  
TECHNOLOGIES

# TECHNICAL PAPER SUBMISSION





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

NOVEMBER 14-16 2018 PARIS, FRANCE



# OPAL-RT TECHNOLOGIES



## YOU CAN NOW SUBMIT AN ABSTRACT FOR A CHANCE TO PRESENT AT #RT18.

Present your work in 100 words or less, and introduce your lab and research.

Send your abstract to [RT18@opal-rt.com](mailto:RT18@opal-rt.com) by June 30, 2018.

If your abstract is selected, you will be invited to present at RT18.

Examples of topics that are of interest include:

### POWER SYSTEMS AND DISTRIBUTION POWER GRIDS:

- Onboard power systems
- Power systems control (FACTS, HVDC, etc.)
- Protection systems
- 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

### AUTOMOTIVE:

- HEV and EV Technology
- Battery management system
- HIL and RCP applications
- Fuel-Cell Hybrid Electric Vehicle
- Smart Cars

**SUBMIT A PAPER NOW!**



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

NOVEMBER 14-16 2018 PARIS, FRANCE



# OPAL-RT TECHNOLOGIES

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.



**NIKOLA STANKOVIC, Ph.D.**

Simulation and control specialist, Power electronics

Nikola received a M.Sc. degree in mechanical engineering from the University of Belgrade, Serbia in 2009 and a Ph.D. degree from the École Supérieure d'Électricité, Gif-sur-Yvette, France in 2013. He is with Opal-RT since 2016, working as a control specialist with focus on power converters for HVDC applications.



**JEAN-NICOLAS PAQUIN**

Head of Division – Studies and Specialized Testing

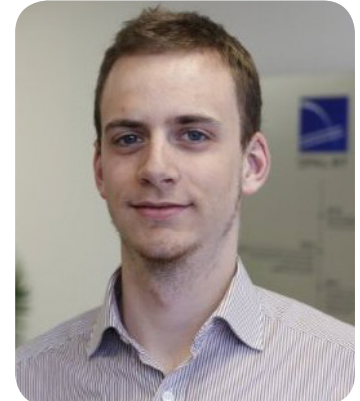
Jean-Nicolas leads expert services and consulting activities at OPAL-RT. Under his guidance, his multidisciplinary team of experts offers assistance to the industry, by delivering advanced modeling, on-site or in-house testing and power system study services.



**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.



**FRANÇOIS TEMPEZ**

Power Systems Technical Manager

François received his Master's in Electrical Engineering from the Ecole Centrale de Lille. As a power system technical manager, he manages most of the power system projects in Europe; for pre-sales activities, custom on-site trainings and advanced technical support. His main areas of expertise are the analysis of complex electrical systems as well as the knowledge of simulation software and computer equipment.