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Refrigeration, Air Conditioning and Heat Pumps: Energy and Environmental Issues

Guest Editor:

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Deadline for manuscript submissions:
closed (30 June 2019)

Message from the Guest Editor

Energy and environmental issues will pose great challenges to the RACHP industry over the next few decades. The common ground for all challenges is that the energy efficiency of components and systems has to increase in order to keep energy consumption and GHG emissions associated with RACHP under control.

The topics to be addressed by this Special Issue on "Refrigeration, Air Conditioning and Heat Pumps" include, but are not limited to:

- Search for alternative, low-GWP working fluids,
- Natural refrigerants and their applications,
- Advanced thermodynamic analyses of reverse cycles and their applications,
- Energy efficiency of vapor compression components and systems,
- Demand Side Management and integration with Renewables,
- Safety issues and risk assessment for flammable refrigerants,
- Control and operations,
- Not-In-Kind alternatives to vapor compression,
- Energy Efficiency of RACHP applications (domestic, commercial, industrial, residential, transport, automotive)
- Environmental impacts of RACHP,
- Market trends and analyses.

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Message from the Editor-in-Chief

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