Call for Papers

Special Issue on:
Selected Extended Papers from the International Conference on Quantum Communication, Measurement and Computing 2021 (QCMC 2021)

Quantum information and computation presents various unusual characteristics by employing quantum mechanics to describe and process information, such as quantum superposition, quantum parallel computing and quantum entanglement contrasted with classical computation. Indeed, the adoption of quantum resources promises to disclose strong advantages in several fields. These promises have led to growing research efforts both from a theoretical and an experimental point of view. On the other hand, great interest has been devoted to investigating and developing novel protocols that exploit quantum resources for enhanced information processing. On the other hand, significant advances have been made in the last few years to identify the most suitable platform for each task, as well as to push the technology towards handling progressively larger quantum systems. All these research efforts have contributed to establishing a worldwide growing community working in the field, which is progressively attracting researchers from other fields, disclosing novel platforms and approaches.

This Special Issue intends to provide a timely chance to scientists, researchers, as well as engineers to discuss and summarize the latest achievement in quantum information and computation and to publish their current innovations, engineering achievements, and some of the state-of-the-art applications to solve these problems. In this Special Issue, we will select the latest research relating to quantum information science and technology presented at QCMC 2021. The fifteenth International Conference on Quantum Communication, Measurement and Computing (QCMC), initially programmed for June 2020 will take place between 5-9th July 2021. The conference encourages to bring together scientists and engineers working in the interdisciplinary field of quantum information science and technology. Authors of selected papers presented at the conference will be invited to submit an extended version of their work to the special issue. Authors can also submit papers that are within the Special Issue’s aims and scope directly to the journal submission system.

Topics of interest include, but are not limited to:

- Quantum cryptography and communication
- Quantum simulation and computation
- Quantum metrology and sensing
- Quantum dynamic and control
- Quantum information theory
- Quantum materials and metamaterials
- Hybrid quantum systems
- Quantum machine learning and intelligence
- Quantum software, algorithms, and code
- Quantum Optics and Non-Linear Dynamic

From January 2021, The IET will begin an Open Access publishing partnership with Wiley. As a result, all submissions that are accepted for this Special Issue will be published under the Gold Open Access Model. All Article Processing Charges (APCs) for this Special Issue have been waived. For further information on APCs, and support for APCs including Wiley’s institutional agreements and Research4Life initiative which offers waivers and automatic discounts for certain countries, please see our FAQs. Please submit your paper via ScholarOne, and for more information about the journal please visit our website and read our Author Guide.

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