

First call for special session papers

Graphene-based devices: modelling and experimental results SS7 at ELECTRIMACS 2019

Special session organizers

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Special session theme

Materials and devices based on graphene and related 2D materials are increasingly proposed in many industrial applications, such as power electronic sector, due to the exceptional intrinsic properties offered by such systems. In order to optimize the performances without extensive and costly trial and error tests and to move from lab-scale to industrial-scale, accurate modelling and simulation are required at both material and device level by keeping in to account uncertainties and tolerances affecting the production process. The aim of the session is to present recent results concerning the realization, modelling and simulation of new devices employing graphene and related 2D material. In particular, papers focused on either theoretical approaches or experimental techniques for achieving increased efficiency, reliability, robustness of the materials and devices are of special interest

Topics of interest

- Passive and active devices based on graphene and related 2D material
- Analytical and semi-analytical modelling of graphene-based devices
- Multi-physic modelling of graphene-based devices
- Circuitual modelling of graphene-based devices
- Coupling of models with experimental results
- Sensitivity analysis of graphene-based devices
- Design optimization in presence of uncertainty of graphene-based devices

IMPORTANT DATES ([see updates on ELECTRIMACS 2019 website](#))

The submission system is open!

Deadline for special session papers

25th November 2018

Notification of acceptance

1st March 2019

Final paper submission and registration

1st April 2019