



SPECIAL SESSION 01

E-Noses and Chemical Sensing in Energy Applications

Artificial olfaction is becoming an operative tool in several application fields. Not surprisingly, recent results and developments highlights that chemicals and odour sensing could play a significant role in the energy sector which is in turn undergoing a fast transition towards smarter, climate friendly and greener solutions. Actually, starting from well established scenarios like odour nuisance and emission monitoring in fossil or bio fuels processing to novel and intriguing fields like field gas leakages detection and localization, transformers monitoring or battery monitoring, e-noses technologies is challenged by new strict sensitivity, integration, pervasivity, mobility and data fusion requirements.

This session is devoted to present outstanding proposals and operative results for E-noses applications to the chemical sensing needs of energy sector.

Special Session Organizers

**Saverio De Vito**

ENEA – Italian National Agency for New Technologies, Energy and Sustainable Economic Development, Italy

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*The accepted papers after proper registration and presentation will be included in the conference proceedings, which will be published in **IEEE Xplore**. The proceedings will be submitted to be indexed by **EI Compendex** and **Scopus**.

* Paper Submission Closes: **19 January 2026**

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