



Keynote speaker:

Professor Frédéric KRATZ, Ph.D.

***Director of Research Development and
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***National Institutes of Applied Sciences INSA
Centre Val de Loire***

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Presentation:

**"Aging modeling and state-of-health
determination for lithium-ion batteries used in
embedded applications"**

He is the author of more than one hundred and thirty scientific articles and has contributed to the drafting of a dozen chapters of books

He was Head of the team Automatic Control of Laboratory of Vision and Robotic at University of Orléans.

Now he is Director of Research Development and Promotion Department and Head of the team project RAMS and Diagnosis of Systems of PRISME Institute.

Research Interests:

- Switched systems
- Nonlinear systems
- Observability, state estimation and control
- Reliability Engineering; System Safety

Funded projects

- "Diagnosis of hybrid systems", CNRS GdR MACS & RTP 20.
- "Diagnosis of common rail", ERDF, ESF, French ministry fund, Regional council Loire Valley fund and Delphi Diesel Systems.
- "Diagnosis of the radiotelescope of Nancay", ERDF, ESF, French ministry fund, Regional council Loire Valley fund, General council of Cher department and CNRS.
- "Biovolume", HICEF (Hitachi Computer Products Europe France) division Smart Sensor.
- "Capthom", Cluster S2E2 (Sciences & Systems of Electrical Energy).
- "Fost", Intelligent Systems and Robotic Competitiveness Cluster: VIAMECA (FUI Project)
- "CIA_IoT", Centre-Loire Valley project