





Laboratoire de Technologies et Services Industriels
Equipe de recherche "Systèmes Energétiques Intelligents et Traitement de l'Information"
SEITI

JOURNEE SCIENTIFIQUE
Vendredi 07 novembre 2025

PROGRAMME

09h00	Accueil et allocutions
09h30	Conférence plénière : Pr. Nicu BIZON « Energy Management Strategies for Fuel Cell Vehicles »
10h15	Pause-Café & Networking
Communications orales 10h45 – 12h30	
Session 1	Modérateurs BYOU Abdelilah (EST-Fès) - EL MOURABIT Youness (EST-Fès)
C-1	Yassine SERGHOUCHNI, Mourad YESSEF, Badre BOSSOUFI "Multi-stage Implementation of Direct Power Control for DFIG based on the V-model framework"
C-2	Imane SEKKOURI, Chakib EL BEKKALI, Badre BOSSOUFI "How does artificial bee colony optimization outperform perturb and observe algorithm in PV water pumping systems"
C-3	Hanane TASMANT, Badre BOSSOUFI, Chakib ALAOUI "Grid-Connected Microgrid Using Finite State Machine Control in MATLAB/Simulink"
C-4	Mohammed CHIBOUB, Btissam MAJOUT, Badre BOSSOUFI "Intelligent Predictive Control Strategies for Electric Traction Systems"
C-5	Naima SALYM, Btissam MAJOUT, Badre BOSSOUFI "Advanced Control Strategies for a Multi-Rotor Wind Energy System"
C-6	Zineb KADIRI, Badre BOSSOUFI "Recent Advances in AI for Enhancing Microgrid Performance and Stability"
Session 2	Modérateurs BOSSOUFI Badre (FSDM-Fès) - EL MAKHLOUFI Assaad (EST-Fès)

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C-7	Abdelfattah EL KINANY, Aziz DEROUICH, Abderrahman EL IDRISSE "Inter-turn fault detection in tree-phase, high-power asynchronous machines"
C-8	Hamza INOUSS, Aziz DEROUICH, Said MAHFOUD "From Modeling to Control: Preparing Intelligent Sensorless Strategies for Induction Motors"
C-9	Houssam ECH-CHAOUY, Aziz DEROUICH, Said MAHFOUD "Sensorless Artificial Neural Networks for Enhanced Direct Torque Control in Induction Machines Using the MRAS Algorithm"
C-10	Asmae ZAFIT, Aziz DEROUICH, Badreddine EL GOUMI "High-Precision Prediction of Green Energy Production Using Spatio-Temporal Data"
C-11	Soumya LAAOUJ, Aziz DEROUICH, Badreddine EL GOUMI "Intelligent Fault Diagnosis and Condition Monitoring of Three-Phase Induction Motors Using Deep Learning"
C-12	Abdessalam LAGHMARI, Youness EL MOURABIT "Design of an Intelligent Embedded System for Predictive Maintenance of Connected Vehicles, Based on Machine Learning and the Internet of Things"
Workshop Pratique & Présentations Orales 15h00 – 17h00	
Modérateurs BYOU Abdelilah (EST-Fès) - EL MOURABIT Youness (EST-Fès)	
WP-1	Ahmed CHANTOUFI, Aziz DEROUICH, Said MAHFOUD, Najib EL OUANJLI "Initiation à la génération du code de production à base de TargetLink – Application avec dSPACE DS1104"
WP-2	Houssam ECH-CHAOUY, Aziz DEROUICH, Said MAHFOUD "Practical Guide for the dSPACE 1104 Card and Validation of PWM Control Applied to a Cage-Rotor Asynchronous Machine"
C-13	Houssam ECH-CHAOUY, Aziz DEROUICH, Said MAHFOUD "Advanced Optimization of Direct Torque Control in Induction Machines Using Ant Colony Optimization and MRAS"
17h00	Table ronde
17h30	Mot de clôture