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Nota di contenuto	Frontmatter -- Contents -- Process Innovation via IoT Technology, Lean Practice, and Green Supply Chains -- A Numerical Study of the Rotating Cylinder Effect on Unsteady Flow Regime at Various Reynolds Number -- Effect of Diverse Variable Leg Geometry on the Performance of the Thermoelectric Generator (TEG) -- Performance of Eco-Binder Made with Dredged Sludge -- Analysis of simultaneous effects of temperature and irradiance on PV metrics and model-physical parameters of a PV solar module operating under non-standard conditions -- An Alternative Method to Determine Vibrational Energy Levels and Spectroscopic Constants of Diatomic Systems -- On the Radio Transmission Chain for THz Bands -- Optimization of detection the true chaotic and regular behavior of anharmonic oscillators with a quartic perturbation -- SoC estimation of Lithium-ion battery: Simulation and Comparative study of machine learning-based modelling methods -- Ship in Harbor Site "Approach manoeuvres" -- An Orthogonal 2-port MIMO Antenna for 5G Applications -- Automatic segmentation of industrial pipeline from terrestrial 3D points cloud -- Calculation of Energy Eigenvalues and Wave Functions of the Deng-Fan Oscillator -- How might hybrid polymer composites based on carbon and natural fibers boost the mechanical properties: A brief review -- Design of Bandpass Filter for RF bands Below 6 GHz for 5G Applications -- The Effect of Shading on the Microclimate of a Canarian Greenhouse in the Chtouka Region -- Adapting the SCOR model to evaluate the

logistics performance of warehousing: Case of an Algerian Logistics Service Provider -- Effect of Tungsten Inert Gas Welding Parameters on Joint Dimensions & Bending Properties of 1mm Mild Steel Joints -- Comparing three Arrangements of Permanent Magnets by Finite Element Software -- Effect of Feed Quality on the Internal Reflux and Boil-Up Ratios of a Binary Continuous Distillation Column -- Circuit Analysis of Series and Shunt Rectifier Topologies for RF Energy Harvesting Applications At 5.80 GHz -- Towards a numerical simulation of the thermogravimetric behaviour of a recyclable biomaterial. -- Technical-Economic Assessment of Wind Energy Resources in Southern Morocco

Sommario/riassunto

The 1st edition of the International Conference on Physical and Engineering Sciences (ICPES'22) is a major gathering of researchers, engineers and practitioners that creates opportunity for them to share ideas within the areas of Physical, Engineering Sciences, Modelling and Simulation from both theoretical and application perspectives. We especially welcome contributions that describe real-world problems, interdisciplinary research, experimental and/or theoretical studies and provide new insights into the fields of Physical and Engineering Sciences. Submissions of original papers concerning any of the areas listed below are also welcome. All accepted papers will be presented at the conference by one of the authors and published in the proceedings of MAASI with an ISBN. The acceptance will be based on quality, relevance, and originality. Presentation options include both oral and poster sessions. We plan to organize special sessions for case studies and commercial presentations, as well as tutorials focusing on technical or scientific matters. Companies that would like to present their products or methodologies, and researchers interested in demonstrating a demo or tutorial are encouraged to contact the conference secretariat.

CONFERENCE AREAS The topic areas are further elaborated below, but the sub-topics are not exhaustive. Authors may address one or more of the listed sub-topics, while being free to also explore unlisted, relevant sub-topics that align with one of the following main topic areas: **PHYSICAL SCIENCES ENGINEERING SCIENCES MODELLING AND SIMULATION PHYSICS EDUCATION**

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