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### International Review on Modelling and Simulations (IREMOS)

**Editor-in-Chief:**  
Prof. **Santolo Meco**  
Department of Electrical Engineering and Information Technology (DIETI)  
FEDERICO II University  
21 Claudio - I80125 Naples, Italy

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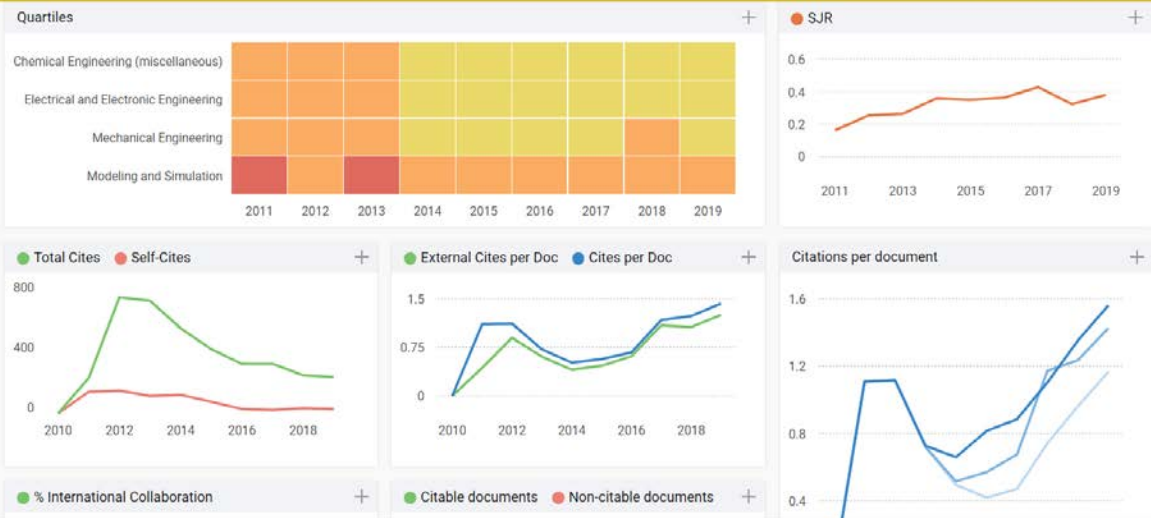
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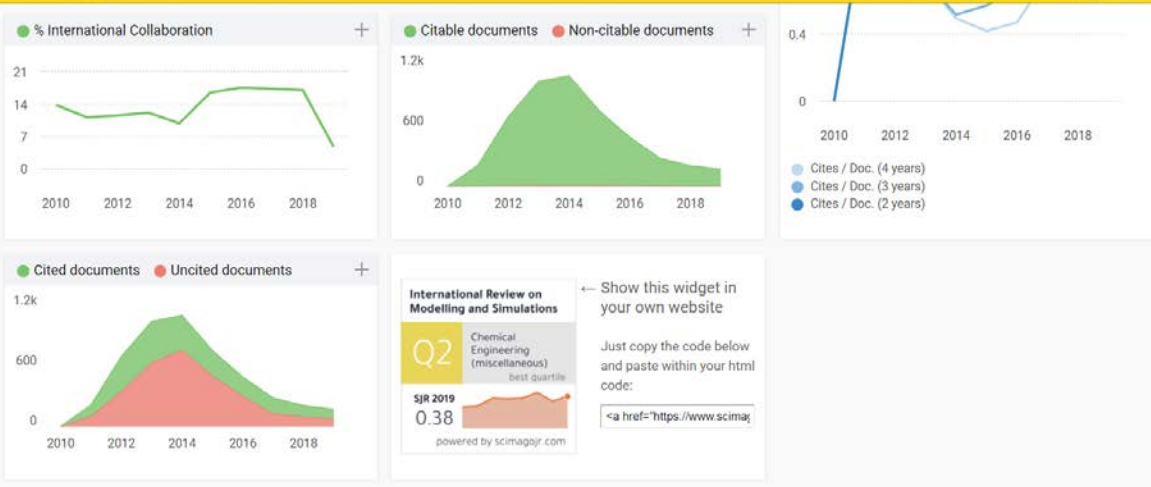
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Publication type	Journals
ISSN	19749821, 25331701
Coverage	2010-2019
Scope	The International Review on Modelling and Simulations (IREMOS) is a peer-reviewed journal that publishes original theoretical and applied papers concerning Modelling, Numerical studies, Algorithms and Simulations in all the engineering fields. The topics to be covered include, but are not limited to: theoretical aspects of modelling and simulation, methods and algorithms for design control and validation of systems, tools for high performance computing simulation. The applied papers can deal with Modelling, Numerical studies, Algorithms and Simulations regarding all the engineering fields, particularly about the electrical engineering (power system, power electronics, automotive applications, power devices, energy

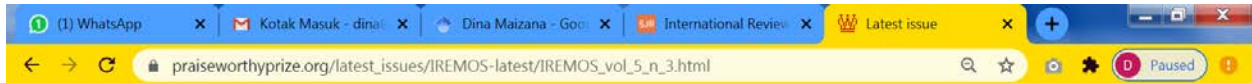


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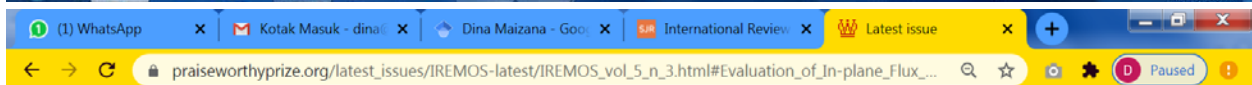



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 **Evaluation of In-plane Flux Distribution in 3Phase 100kVA Transformer Core**  
by Dina Maizana  
Vol. 5, n. 3, pp. 1263-1273


**Abstract** - These papers describe the result of measurement and evaluate the behaviours of in-plane flux distribution on 100kVA 3phase distribution transformer assembled with the combination of 60o-45o T-joint. Methodology that is used in this investigation is measurement of flux distributions in transformer core by using no load test and arrays of search coil in Cold Roll Grain Oriented (CRGO) material of transformer core lamination. The measurement involves the fundamental and third harmonics component of the easy and hard direction of flux density at each location measurement. The instantaneous flux flow through the core within one magnetising cycle is analysed with displaced by 120o in time. The locus of the localised flux distribution throughout the magnetising cycle is illustrated the rotational flux produced in the T-joint region of the three-phase three limbs transformer core. The localized flux density at the outer of combination of 60o- 45o T-joint is 1.4T and rises to be 1.68T at the inner edges of right yoke passes over to the butt joint of middle limb when the transformer core energized at flux density 1.5 T 50Hz. At the same place the high third harmonic of peak in-plane flux is 0.23T. The transfer of flux between lamination takes place until a point is reached where the material in the region butt joint of yoke lamination, which is directly above the butt joint and the flux higher but did not, reaches saturation.  
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**Keywords:** Transformer Core, In-Plane Flux, Magnetic Behavior, Locus.

 **Experimental Study and Simulation of the Influence of the Rotor Geometry on the Performances of Solid Rotor Induction Motor**  
by Hachemi Mabrouk, Hemsas Kamel Eddine, Kadri Riad, Abdossamed Rachid  
Vol. 5, n. 3, pp. 1274-1281

**Abstract** - This paper presents an experimental investigation and simulation on the effect of the rotor geometry on the performances of a solid rotor induction motor. The practical tests and simulation have been done on five solid rotors (1 smooth and 4 grooved) by making grooves and varying: the grooves number, the grooves depth (constant grooves width), and the grooves width (constant grooves depth). The objective of this study is to examine the influence of the geometric parameter's solid rotor on the performances of such motor. The experimental and simulation results are exposed by considering two essential parameters: the electromagnetic torque and the power factor.  
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**Keywords:** Induction Motor, Smooth Solid Rotor, Grooved Solid Rotor, Geometry, Experimental Study, Simulation.

 **Simulation and FPGA Modeling of a Virtual BLDC Motor**

