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## INTRODUCTION

Journal of Energy special issue: Papers from 2<sup>nd</sup> International Colloquium "Transformer Research and Asset Management"

Welcome to this special issue, which is based on selected papers presented at the 2<sup>nd</sup> International Colloquium "Transformer Research and Asset Management", held in Dubrovnik, Croatia, on May 16<sup>th</sup>-18<sup>th</sup>, 2012.

The International Colloquium was organized by the Croatian CIGRÉ National Committee in cooperation with the Faculty of Electrical Engineering and Computing in Zagreb and the Centre of Excellence for Transformers in Zagreb with support from CIGRÉ A2 Study committee (Transformers). The goal of the Colloquium was to share latest research in the in the areas of distribution, power and instrument transformers.

The Colloquium extended over three days. Two CIGRÉ tutorials were offered to all participants. In total there were 148 participants from 26 countries. All of the 47 accepted papers were presented in oral sessions, out of that there were three invited lectures. Participants from manufacturers, utilities and universities took part in discussions.

All the papers were divided into three sessions

### Numerical Modeling

- Electromagnetic field
- Coupled fields
- Transients
- Numerical modeling in design, etc.

### Materials, Components and New Technologies

- Insulating material
- Magnetic material
- Transformer components
- Transformer new technologies, etc.

### Transformer Life Management

- Monitoring
- Diagnostics
- Failures
- Asset management, etc.

From the 47 papers presented at the Colloquium, 18 papers were accepted for publication in Journal of Energy after having undergone the peer-review process. We would like to thank the authors for their contributions and the reviewers who dedicated their valuable time in selecting and reviewing these papers. We hope this special issue will provide you a valuable source of newest achievements in transformer technology.

### Guest Editors

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