

Editorial Note

It is a great privilege for us as IJECE editorial-board members to present our readers the current issue of journal which wraps up its third year of successful publication. This particular issue of journal exceeds several records of its previous history. At first, the summer-fall issue accommodates two Special Sections. Each section is organized to present articles in a particular area of electrical or computer engineering to attract readers who are interested in reading papers related to that special field. The inclusion of two Special Sections in a single issue provides a better chance to fulfill the expectation of a broader community of our audiences.

Secondly, the current issue shows a smooth rise in the number of papers compared to both the previous issues and volumes. It seems that if the growing trend of the number of submitted articles continues, the change of journal publication periodicity becomes a wise decision in future.

Thirdly, we are pleased to welcome the extension of the journal referees network which currently enjoys the volunteer co-operation of about 600 experts worldwide. Specifically, the current issue of journal has been benefited from the expertise of more than one hundred reviewers from 29 countries.

As a final point in this regard, it is also a good opportunity to announce the selection of IJECE as a professional journal for inclusion in several well-known citation databases by international scientific citation bodies. Recently, IJECE has responded positively to a request sent by Elsevier Bibliographic Databases regarding the coverage of Iranian Journal of Electrical and Computer Engineering by Elsevier databases starting from 2005. A positive response also was sent to a similar request by INIST-CNRS Department Resources Documentaries.

It is noteworthy that different university libraries in developing countries have been benefited from *Complimentary Subscription for University Libraries in Developing Countries (CSULDC)* package, which is the IJECE offer of free subscription for a period of four years (2002-2005), since its announcement early this year. Fortunately, still there is a chance for other universities to apply since the approved subscriptions of this kind had not reached to the maximum number planned for the package. For such subscription, all we need is a formal letter from the head of university library or other administrative personnel who are responsible for such correspondences enclosed to a filled subscription form. The form is available both in this issue and at the IJECE website (<http://www.ijece.org/E-Subscription.pdf>). To provide a better chance for other universities to be profited from this opportunity, Iranian universities may not use such services.

Returning to the current issue, fourteen papers are presented to our readers. As mentioned earlier, the current issue for the first time hosts two Special Sections, namely *Special Section on Power Engineering* and *Special Section on Signal Processing Applications*. Each Special Section contains six articles. The section on Power Engineering starts with a paper by Litipu *et al.* which reports the use of

different deterministic and non-deterministic methods for derivation of several transient models for analysis and simulation of wind power turbines. In the next article, Hamdaoui *et al.* discuss a fuzzy learning control method for super-conducting magnetic energy storage to improve transient power system stability. The third paper presented by Singh *et al.* addresses the modeling of a generalized unified power flow controller. Later, the application of fractal analysis for characterizing nonlinear load harmonics is explained in an article by Umeh *et al.* Finally, two papers contributed by Saqib *et al.* regarding the temperature and electron density of the arc phenomenon in high-voltage fuses conclude this section.

The first paper of the second Special Section which is presented by Panigrahi *et al.* discusses the analysis of power quality disturbances using scale-frequency method. Farrokhi *et al.* explain the use of a combination of wavelet features and fuzzy hybrid neural network for automatic detection of premature complexes in ECG signals. Later, a new method based on genetic algorithm for deconvolution of thermal images is addressed in a paper authored by Marcu and Vladutiu. The fourth article is a contribution of Khan *et al.* which deals with the use of genetic programming for perceptual shaping optimization of digital watermarked images. Panigrahi *et al.* in their article discuss the analysis of power quality using a particular wavelet transform. The Special Section on Signal Processing Applications is concluded by a paper regarding the digital domain design of cascaded ladder wave digital filters contributed by Samad.

The regular papers section of this issue includes two papers. A rather long article by Saade and Diab addresses the different defuzzification strategies and new techniques for fuzzy controllers. Finally, this issue is concluded by another paper in control engineering entitled a sufficient condition for decentralized stabilization contributed by Amirifar and Sadati.

Pleasant Reading,

S. Vaez-Zadeh
Associate Editor

H. R. Sadegh Mohammadi
Editor-in-Chief