# This TRANSACTIONS in Transition

THIS ISSUE marks the end of my tenure as Editor-in-Chief of this TRANSACTIONS. My first issue was the July 2003 issue and, in the mean time, this TRANSACTIONS has seen unprecedented growth. When I started, this TRANSACTIONS was receiving 11 submissions per week, and at the end of my tenure, the average submission rate was 22 submissions per week, a growth of 100% in three years. My proudest achievement was the timeliness of publication achieved. The turnaround time from submission of a manuscript to its publication was reduced from an average of 55.3 weeks, or 12.7 months, for the six years prior to my term, to an average of 8.6 months during my term. The median was 8.4 months, meaning that half the papers went from submission to appearing in print in less than 8.4 months. A more detailed documentation is given in Fig. 1. The peak experienced in 2005 was due to a growing backlog, a result of the unprecedented increase in submissions. Something that could not have been predicted. The IEEE Microwave Theory and Techniques Society (IEEE MTT-S) has been active in its support of this TRANSACTIONS, increasing the page budget when required, but even then the growth could never be properly anticipated. The growth in part reflects the growth of the microwave industry in Asia and Europe. However, authors desire rapid dissemination of their research and the reduction in turnaround time drew papers from authors whose manuscripts could just as easily have been submitted elsewhere.

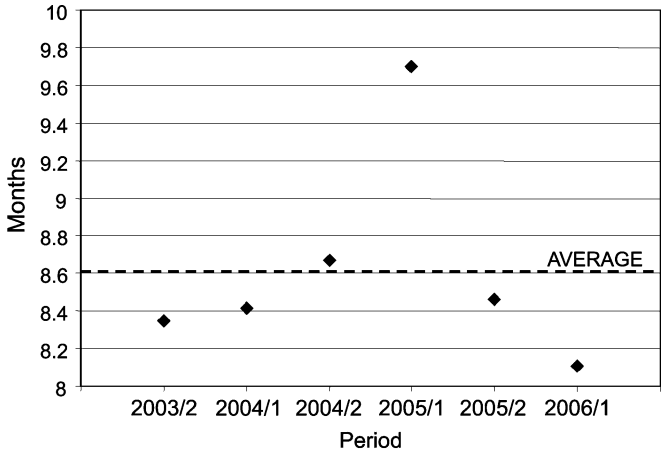


Fig. 1. Publication delay in months for the six-month periods beginning with the first half of 2003 (2003/1). The delay is from submission of a manuscript to publication.

In 2005, this TRANSACTIONS published 425 papers, the most we have ever published. Our papers are widely read and the number of downloads of this TRANSACTIONS' papers is the second highest in electrotechnology. In 2005, the most heavily downloaded paper was downloaded 5682 times! Quite remarkable. Below is an unordered list of the top 50 downloaded papers from 2005.

- K. Ioakeimidi, R. F. Leheny, S. Gradinaru, P. R. Bolton, R. Aldana, K. Ma, J. E. Clendenin, and R. F. W. Pease, "Photoelectronic analog-to-digital conversion: Sampling and quantizing at 100 Gs/s," Jan. 2005, pp. 336–342.
- R. Mukhopadhyay, Y. Park, P. Sen, N. Srirattana, J. Lee, C.-H. Lee, S. Nuttinck, A. Joseph, J. D. Cressler, and J. Laskar, "Reconfigurable RFICs in Si-based technologies for a compact intelligent RF front-end," Jan. 2005, pp. 81–93.
- T. O. Dickson, M. A. LaCroix, S. Boret, D. Gloria, R. Beerkens, and S. P. Voinigscu, "30–100-GHz inductors and transformers for millimeter-wave (Bi)CMOS integrated circuits," Jan. 2005, pp. 123–133.
- L. Yang, M. Fan, F. Chen, J. She, and Z. Feng, "A novel compact electromagnetic-bandgap (EBG) structure and its applications for microwave circuits," Jan. 2005, pp. 183–190.
- S. Lim, C. Caloz, and T. Itoh, "Metamaterial-based electronically controlled transmission-line structure as a novel leaky-wave antenna with tunable radiation angle and beamwidth," Jan. 2005, pp. 161–173.
- T.-P. Hung, A. G. Metzger, P. J. Zampardi, M. Iwamoto, and P. M. Asbeck, "Design of high-efficiency current-mode class-D amplifiers for wireless handsets," Jan. 2005, pp. 144–151.
- T.-K. Nguyen, N.-J. Oh, C.-Y. Cha, Y.-H. Oh, G.-J. Ihm, and S.-G. Lee, "Image-rejection CMOS low-noise amplifier design optimization techniques," Feb. 2005, pp. 538–547.
- H. Shigematsu, T. Hirose, F. Brewer, and M. Rodwell, "Millimeter-wave CMOS circuit design," Feb. 2005, pp. 472–477.
- S. J. Pang, A. Bellaour, S. T. Lee, and D. S. Allstot, "An image-rejection down-converter for low-IF receivers," Feb. 2005, pp. 478–487.
- J. Deng, P. S. Gudem, L. E. Larson, and P. M. Asbeck, "A high average-efficiency SiGe HBT power amplifier for WCDMA handset applications," Feb. 2005, pp. 529–537.
- Y.-J. Kim, T.-S. Son, V. N. Parkhomenko, I.-C. Huang, J.-K. Nah, and B.-H. Park, "A GSM/EGSM/DCS/PCS direct conversion receiver with integrated synthesizer," Feb. 2005, pp. 606–613.
- C. Hermann, M. Tiebout, and H. Klar, "A 0.6-V 1.6-mW transformer-based 2.5-GHz downconversion mixer with $+5.4$-dB gain and $-2.8$-dBm IIP3 in 0.13-$\mu$mCMOS," Feb. 2005, pp. 488–495.
- C.-Y. Lee, T.-S. Chen, J. D.-S. Deng, and C.-H. Kao, "A simple systematic spiral inductor design with perfected $Q$ improvement for CMOS RFIC application," Feb. 2005, pp. 523–528.
- E. Semouchkina, A. Baker, G. B. Semouchin, M. Lanagan, and R. Mittra, "New approaches for designing microstrip filters utilizing mixed dielectrics," Feb. 2005, pp. 644–652.

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- H. Zhang, H. Guo, and G. P. Li, "Broad-band power amplifier with a novel tunable output matching network," Nov. 2007, pp. 3606–3614.

This TRANSACTIONS publishes a number of Special Issues devoted to topical areas and to conferences. Upcoming Special Issues are as follows.

1) Mini-Special Issue on the 2005 Asia–Pacific Microwave Conference. Scheduled publication date: August 2006.
2) Special Issue on the 2006 Radio and Wireless Symposium. Scheduled publication date: September 2006.
3) Mini-Special Issue on Measurements for Large-Signal Characterization and Modeling of Nonlinear Analog Devices, Circuits, and Systems. Scheduled publication date: September 2006.
4) Special Issue on the 2006 IEEE MTT-S International Microwave Symposium. Scheduled publication date: November 2006.
5) Special Issue on Applications of Ferroelectrics in Microwave Technology. Scheduled publication date: January 2007.

More information about these Special Issues can be obtained from this TRANSACTIONS' web-site: http://www.mtt.org > Publications > Transactions. Here authors can also find an author checklist required for submission of papers. Recent published Special Issues are as follows.

1) Special Issue on Microwave Photonics. Publication date: February 2006.
2) Special Issue on Ultra-Wideband. Publication date: April 2006.
3) Special Issue on the 35th (2005) European Microwave Conference. Published as Part II of this June issue.

I am honored to have been your Editor-In-Chief and also look forward to returning to some normalcy. The job of Editor-In-Chief in the coming years will be shared by two Co-Editors-In-Chief: Dr. Amir Mortazawi and Dr. Dylan Williams. They can be reached using the e-mail address TMT-Teditor@ieee.org. Again, thank you for entrusting me with the most important technical position in the IEEE MTT-S. I thank authors and readers for the wonderful letters of support I have received over the years. I also thank the Associate Editors who have worked with me over the past three years and through their dedication and tireless efforts are just as responsible for our achievements. I thank Drs. Steven Marsh, Andreas Cangellaris, Manh Anh Do, Kenji Itoh, David Linton, Yoshio Nikawa, José Carlos Pedro, Sanjay Raman, Vittorio Rizzoli, Zoya Popović, Alessandro Cidronelli, Alexander Yakovlev, Amir Mortazawi, Dylan Williams, Ruey-Beei Wu, Tadeusz Wysocki, Antti Raisnen, Baumann Kim, Wolfgang Menzel, Peter Russer, and Randy Lehmann. Please thank them for their dedication when you see them. I also thank the Guest Editors of the Special Issues published during my tenure. Everyone contributed to a very timely publication with the highest standards. I leave the post with great satisfaction and wish the new team every success.

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