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252 Growing Cells Atop Microelectronic Chips: Interfacing Electrogenic Cells In Vitro With CMOS-Based Microelectrode Arrays
By A. Hielemann, U. Frey, S. Hafizovic, and F. Heer
[CONTRIBUTED PAPER] This paper offers an overview of the fundamentals of bioelectronic measurements, as well as the design, system integration, and application of CMOS-based microarrays for recording from and for stimulating electrogenic cells from the brain and heart.

249 Prolog, J. Esch

288 Fifty Years of Acoustic Feedback Control: State of the Art and Future Challenges
By T. van Waterschoot and M. Moonen
[CONTRIBUTED PAPER] The authors evaluate current methods available for dealing with the problem of acoustic feedback and identify the challenges facing future research in developing reliable and affordable solutions to the problem of controlling acoustic feedback.

285 Prolog, R. O'Donnell

330 Privacy-Aware Design Principles for Information Networks
By S. B. Wicker and D. E. Schrader
[CONTRIBUTED PAPER] In this paper, the authors introduce five privacy-aware principles that should enable designers to create mobile networks that address the anxieties of individual users and the public at large by minimizing the collection of personal data.

328 Prolog, R. O'Donnell

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Is Electrical Noise Useful?
By M. D. McDonnell

247 SCANNING THE ISSUE

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Electrical Engineering Hall of Fame:
Harold S. Black
By J. F. Brittain

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On the Cover: On this month's cover we highlight the paper "Growing Cells Atop Microelectronic Chips" with an illustration of a human brain cell.