

REGULAR PAPERS ISSUE

204 A Tutorial on Ultrareliable and Low-Latency Communications in 6G: Integrating Domain Knowledge Into Deep Learning

By C. She, C. Sun, Z. Gu, Y. Li, C. Yang, H. V. Poor, and B. Vucetic

| CONTRIBUTED PAPER | This article illustrates how domain of communications and networking can be integrated into different kinds of deep learning algorithms for ultrareliable low-latency communication.

247 Explaining Deep Neural Networks and Beyond: A Review of Methods and Applications

By W. Samek, G. Montavon, S. Lapuschkin, C. J. Anders, and K.-R. Müller

| CONTRIBUTED PAPER | This review provides a timely overview of explainable AI for deep neural networks, with a focus on *post hoc* explanations.

279 A Survey of Powertrain Technologies for Energy-Efficient Heavy-Duty Machinery

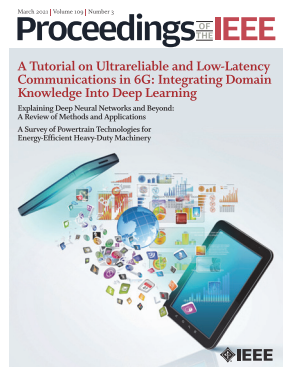
By Z. Quan, L. Ge, Z. Wei, Y. W. Li, and L. Quan

| CONTRIBUTED PAPER | This article presents a comprehensive, multidisciplinary overview on the development of hydraulics and powertrain technologies for energy-efficient heavy-duty earthmoving machines.

DEPARTMENTS

202 SCANNING THE ISSUE

309 FUTURE SPECIAL ISSUE/SPECIAL SECTIONS



On the Cover:
Our cover image this month highlights mobile communication, where innovative ideas are being applied to achieve ultrareliable low-latency communication in 6G.