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Advanced Machine Learning and Data Mining: A New Frontier in Artificial Intelligence Research

Guest Editors:

Dr. Nigel Houlden
Department of Computing, Wrexham Glyndŵr University, Plas Coch Campus, Mold Road, Wrexham, LL11 2AW, UK

n.houlden@glyndwr.ac.uk

Prof. Dr. Vic Grout
Department of Computing, Wrexham Glyndŵr University, Plas Coch Campus, Mold Road, Wrexham LL11 2AW, UK

v.grout@glyndwr.ac.uk

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Message from the Guest Editors

Dear Colleagues,

Without data, there is no machine learning (ML), so there is no doubt that big data and ML are inextricably linked. However, much research to date has tended to treat them as separate areas of development. As we are confronted with today's difficult problems and the wealth of held data continues to grow, it is vital that new, innovative ways of examining, testing, and using big data to produce useful information are both researched/developed and integrated. For this Special Issue, as the individual fields of advanced machine learning and advanced data mining are well established, the focus will be specifically on their intersection: the point—or points—at which one aids, needs, or enhances the other. In addition, of course, this new frontier in artificial intelligence research offers as many ethical questions as it does possibilities: could we, should we, and (how) will we?

This Special Issue solicits empirical, experimental, methodological, and theoretical research reporting original and unpublished results on big data and machine learning analysis and mining on topics in all realms of research along with applications to real life situations.