FOREWORD

Special section on nonlinear dynamical aspects of edge computing and neuromorphic hardware

Nonlinear dynamics provides us with an essential viewpoint for further development of edge computing and neuromorphic hardware towards new paradigms of computing. With this shared motivation, six papers contributed to this Special Section address various topics of computing, ranging from neural network models to hardware implementation. We hope that this section contributes to further progress in related research fields.

This Special Section was proposed as a part of joint activities of two research projects entitled “Computing technology based on spatiotemporal dynamics of photonic neural networks” and “Fundamentals of spintronics-based edge computing hardware” in CREST Research Area “Technology for Computing Revolution for Society 5.0” of Japan Science and Technology Agency (JST).

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