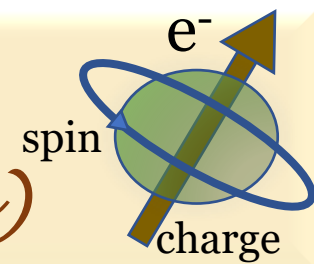




# W2S Seminar

(Webinar series on Spintronics)



## Spin-based Neuromorphic Computing

Speaker:

Prof. S.N. Piramanayagam  
School of Physical and Mathematical Sciences,  
Nanyang Technological University, Singapore

**Date and time:**  
**01.10.2020 at**  
**6.30 pm IST**

**Via**  
**Zoom**

### Abstract

Artificial intelligence (AI) is gaining wide importance now. One of the major problems associated with AI is the huge power consumption. In this connection, neuromorphic computing – also known as – brain-inspired computing is expected to solve the power-consumption issues. Various systems such as phase change materials, resistive RAM materials and spin-based materials are investigated for neuromorphic computing. In this talk, the speaker will present their group's work towards spin-based neuromorphic computing. Basic introduction and review of spin-based neuromorphic computing will be provided first, followed by a detailed discussion on the new results that can enable aJ/bit energy consumption. The talk will be of tutorial nature in the first half and will consist of in-depth details in the second half. (email: prem@ntu.edu.sg)

If interested to attend then please visit <https://www.niser.ac.in/w2s-seminar/index.php>