

## Somnuk Phon-Amnuaisuk

Professor, School of Computing & Informatics  
Universiti Teknologi Brunei, Gadong BE 1410,  
Brunei Darussalam



<https://scholar.google.com/citations?user=b8fmriAAAAJ&hl=en>

**Email:** [somnuk.phonamnuaisuk@utb.edu.bn](mailto:somnuk.phonamnuaisuk@utb.edu.bn);

[span.amnuaisuk@gmail.com](mailto:span.amnuaisuk@gmail.com)

### RESEARCH INTERESTS

---

Artificial Intelligence, Representation Learning, Creative Computing, Cognitive Computing and Autonomous Agents

### SELECTED RECENT PUBLICATIONS

---

See <https://sites.google.com/site/somnukphonamnuaisuk/>

- 1 Exploring Graph Representation of Chorales. arxiv2201.11745
- 2 Learning Robot Arm Controls Using Augmented Random Search in Simulated Environments. MIWAI 2021: 118-128
- 3 Visual-Based Positioning and Pose Estimation. ICONIP (4) 2020: 597-605
- 4 Semantic Instance Segmentation in a 3D Traffic Scene Reconstruction Task. SICE 2020: 186-191
- 5 Exploring Music21 and Gensim for Music Data Analysis and Visualization. DMBD 2019: 3-12
- 6 Pixel-Based LSTM Generative Model. CIIS 2018: 203-212
- 7 Evolving 3D Models Using Interactive Genetic Algorithms and L-Systems. MIWAI 2017: 485-493

### MEDIA INFORMATICS SPECIAL INTEREST GROUP (MI-SIG)

---

Somnuk leads the Media Informatics Special Interest Group (MI-sig). MI-sig focuses on applying AI technology to create:

- AI applications in assistive technology: assistive technology aims to improve the well-being of individuals who otherwise may not be able to achieve the same capacity without this technology.
- AI applications in creative industries: activities in traditional creative industries focus on contents creation and relevant technologies for disseminating content to the public. With the advances of ICT technology and AI technology, art and science have merged and a new breed of researchers well-versed in both computing and design are growing to create applications that serve\ice activities in the new knowledge economy (e.g., web 3.0, industry 4.0).