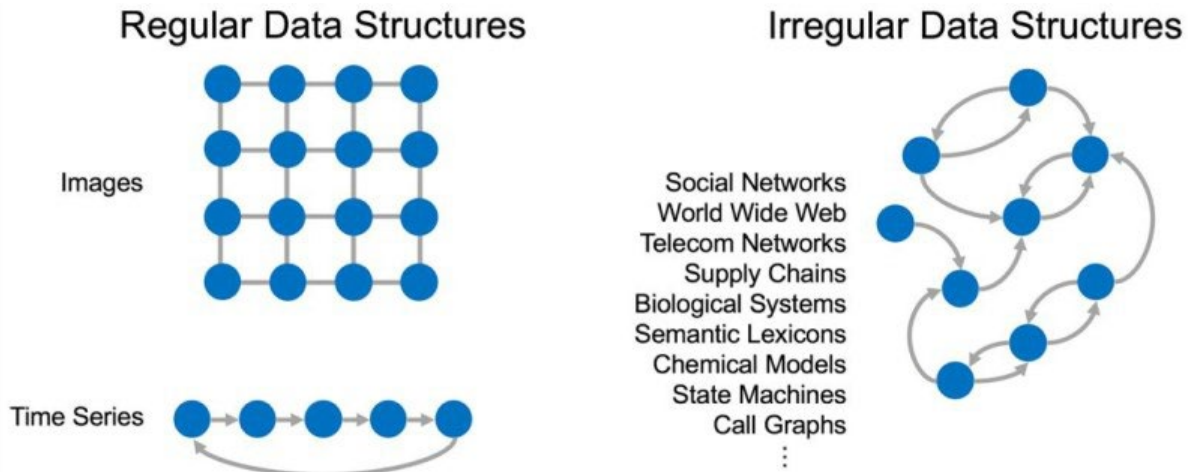


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Carnegie Mellon University Software Engineering Institute



SEI Bulletin — August 7, 2019

SEI Researcher Explores the Promise of Deep Learning on Graphs

As Department of Defense (DoD) datasets grow in size and complexity, analyzing that data requires new approaches. In [a recent blog post](#), [Oren Wright](#), a research scientist in the SEI's Emerging Technology Center, details new research by the SEI and Carnegie Mellon University's Department of Electrical and Computer Engineering to apply graph signal processing formalisms in the creation of new deep learning tools for graph convolutional neural networks.

"DoD data are growing not just in size, but in heterogeneity," Wright says in the post. "Navigating that irregularity and complexity, and doing so at scale, is vital, and geometric deep learning opens a path."

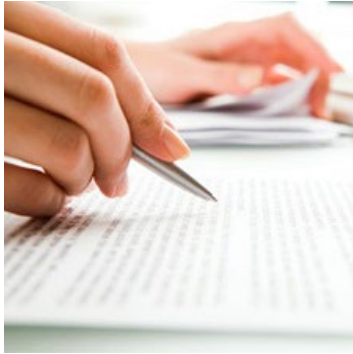
[Read the blog post.](#)

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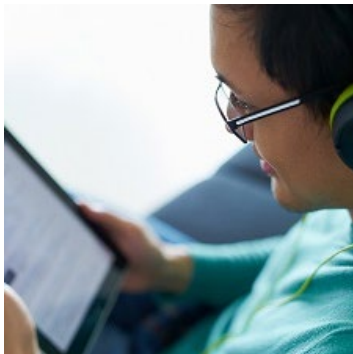
- [IEEE Computer Society/Software Engineering Institute Watts S. Humphrey Software Process Achievement Award 2018: U.S. Army Combat Capabilities Development Command Armaments Center, Fire Control Systems and Technology Directorate](#)
- [Death by Thumb Drive](#)
- [Cloud Security Best Practices Derived from Mission Thread Analysis](#)



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September 10-13, 2019 (SEI Arlington, Va.)
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September 18-19, 2019 (SEI Pittsburgh, Pa.)



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