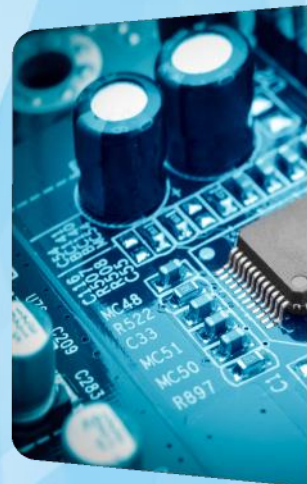


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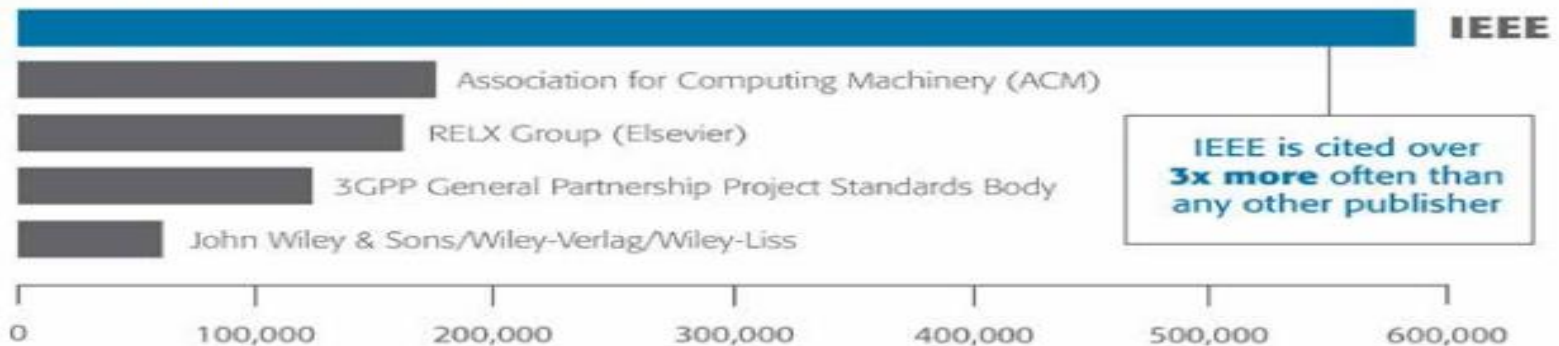
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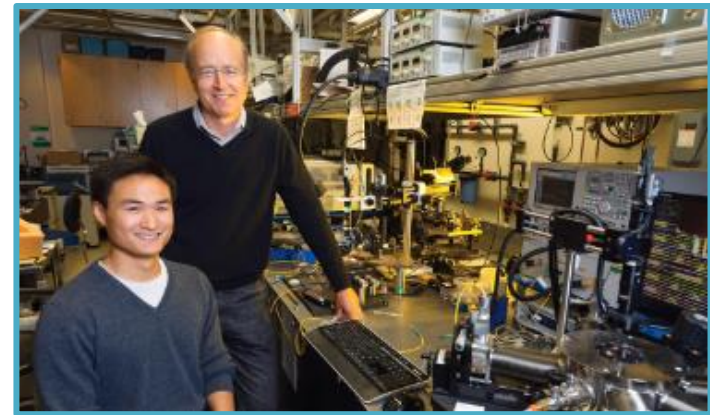
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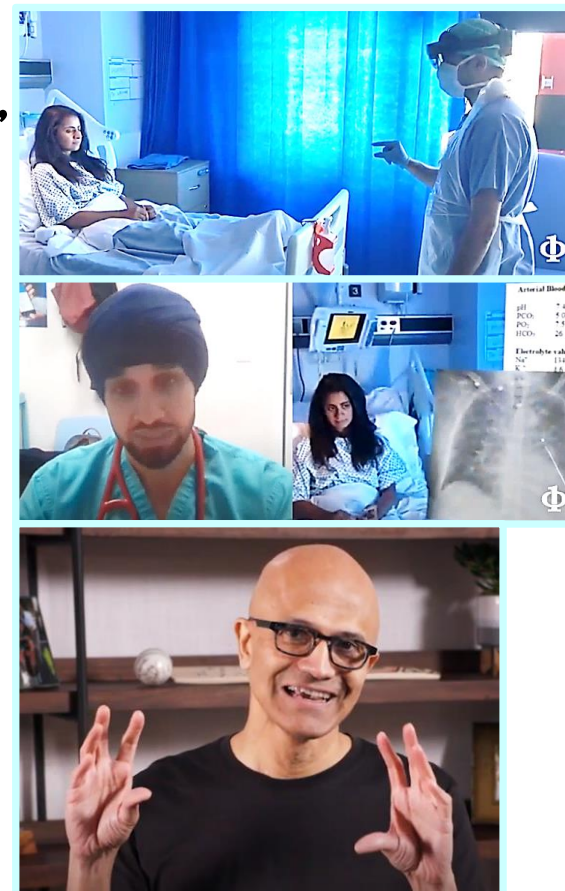
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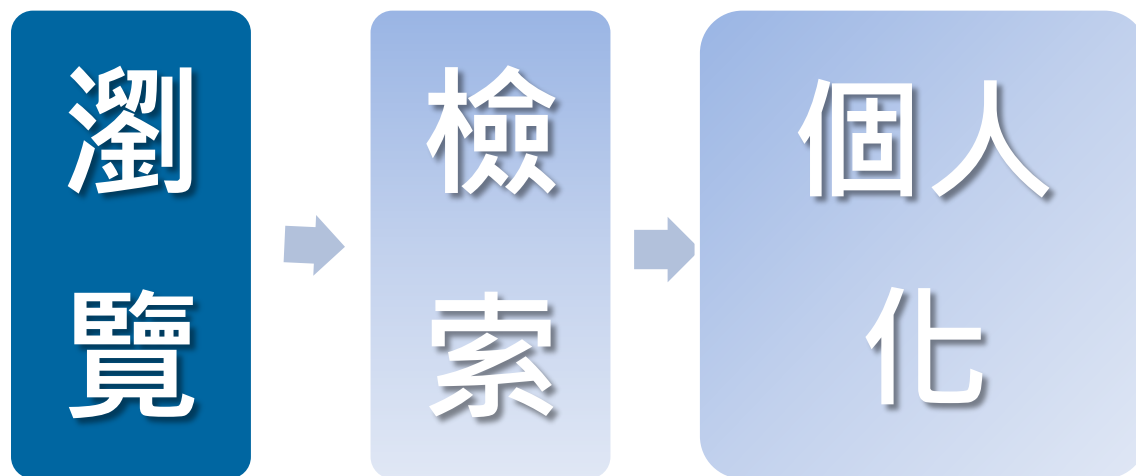
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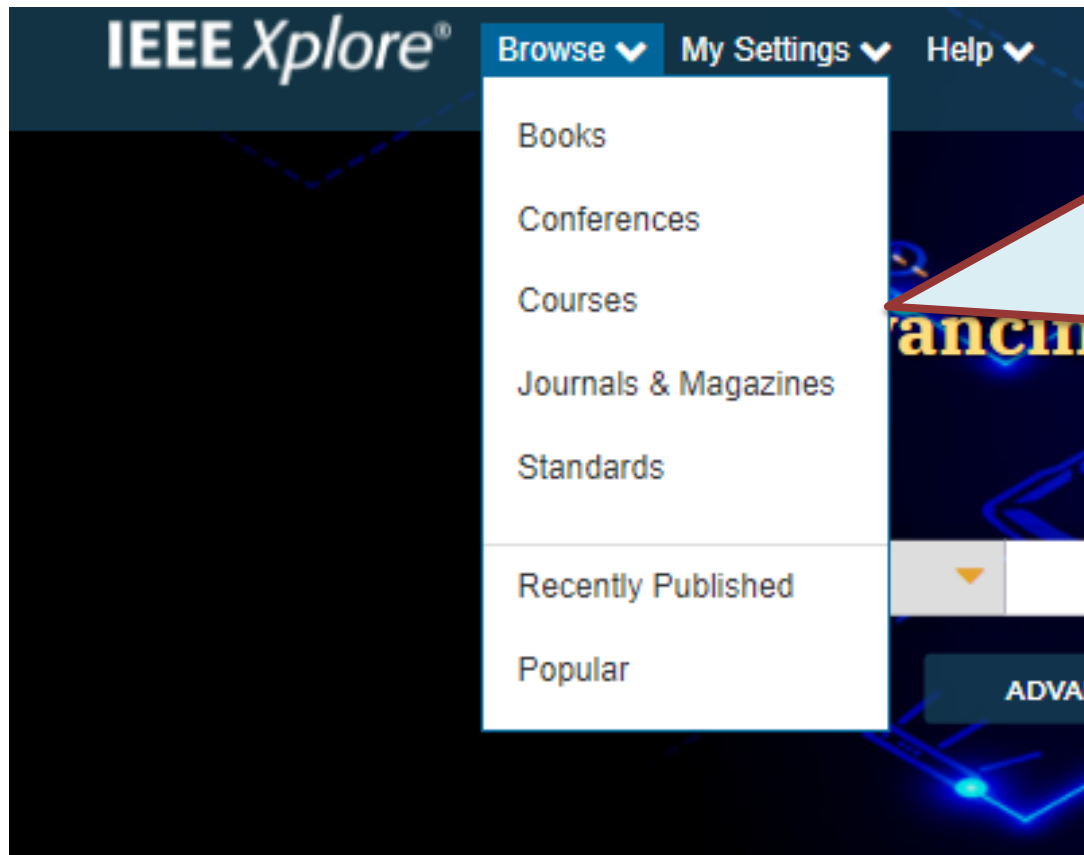
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Journals & Magazines > IEEE Control Systems Magazine > Volume: 41 Issue: 6

## Neuromorphic Control: Designing Multiscale Mixed-Feedback Systems

Publisher: IEEE

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Luka Ribar ; Rodolphe Sepulchre All Authors

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Published in: IEEE Control Systems Magazine ( Volume: 41 , Issue: 6, Dec. 2021)

Page(s): 34 - 63

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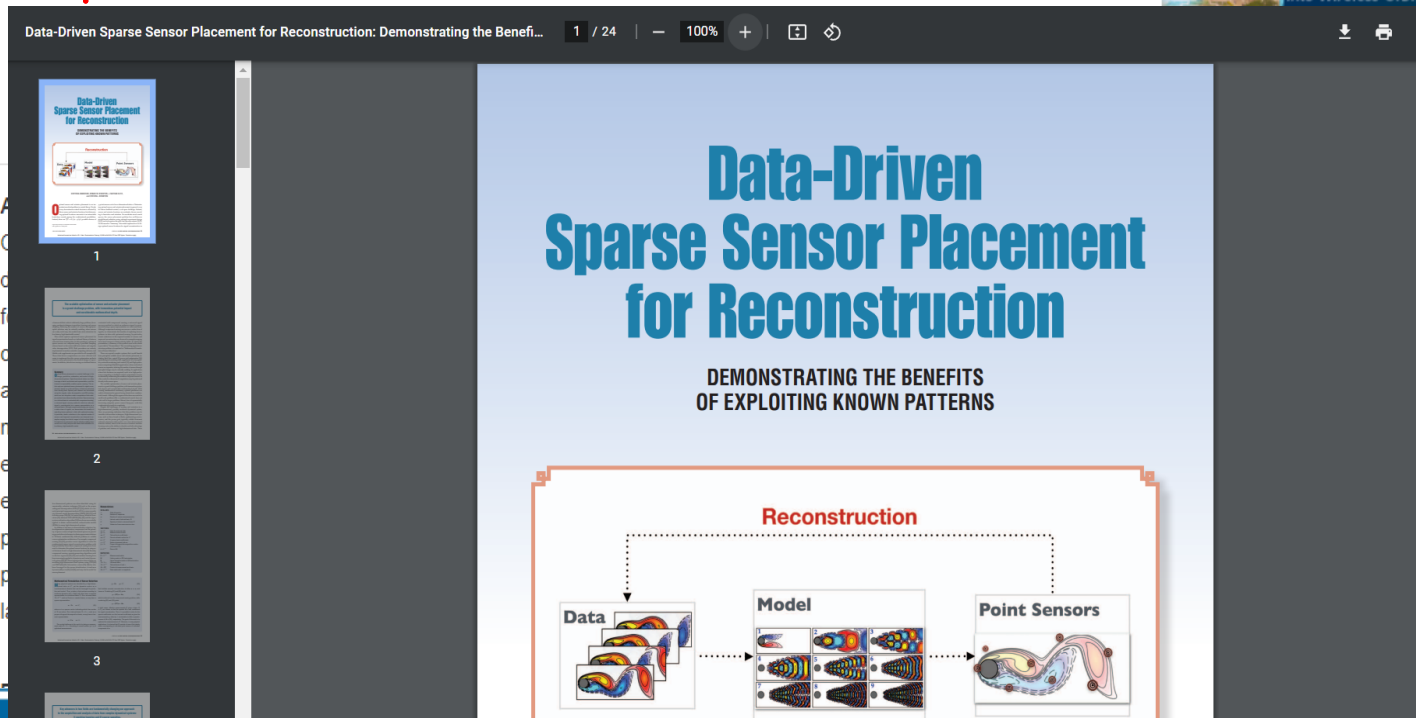
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Figure 1 consists of four subplots arranged in a 2x2 grid. The top row shows a black time series plot on the left and its corresponding Power Spectral Density (PSD) plot on the right. The bottom row shows a blue time series plot on the left and its corresponding PSD plot on the right. All time series plots have 'Time (s)' on the x-axis (ranging from 0.22 to 0.26) and 'x' on the y-axis (ranging from -3 to 3). The PSD plots have 'Frequency (Hz)' on the x-axis (ranging from 0 to 1000) and 'Power Spectral Density' on the y-axis (ranging from 0 to 1200). The black time series plot shows a signal with several peaks, with blue circles highlighting specific points. The blue time series plot shows a similar signal but with a different phase and amplitude. The PSD plots show three distinct peaks at approximately 50 Hz, 400 Hz, and 700 Hz.

The diagram shows the relationship between input data  $y$ , covariance matrix  $C$ , precision matrix  $\psi$ , and the posterior distribution  $\theta$ . It is structured as follows:

- Input Data  $y$ :** A vertical column of colored squares (yellow, green, red, blue).
- Covariance Matrix  $C$ :** A square matrix with a white background and black squares indicating non-zero elements.
- Precision Matrix  $\psi$ :** A square matrix with a grid of colored squares (yellow, green, red, blue) and black lines representing a banded structure.
- Posterior Distribution  $\theta$ :** A horizontal row of colored squares (yellow, green, red, blue).

The relationships are indicated by arrows and equals signs:

- $y = C \psi$  (vertical arrow from  $y$  to  $C$ , horizontal arrow from  $C$  to  $\psi$ )
- $\psi = \theta S$  (horizontal arrow from  $\psi$  to  $\theta$ , vertical arrow from  $\theta$  to  $S$ )

Where  $S$  is a vertical column of colored squares (yellow, green, red, blue) representing the standard deviation matrix.

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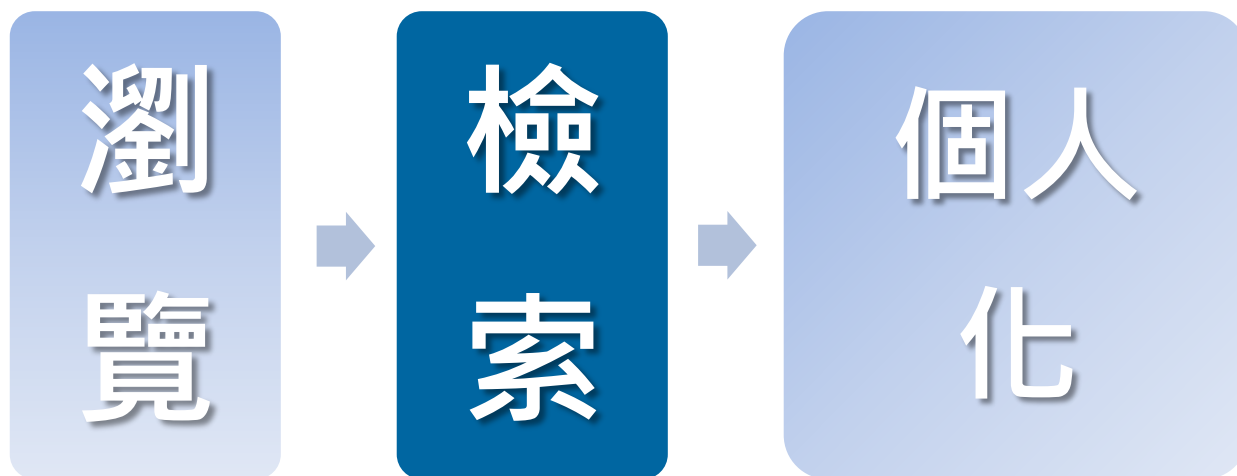
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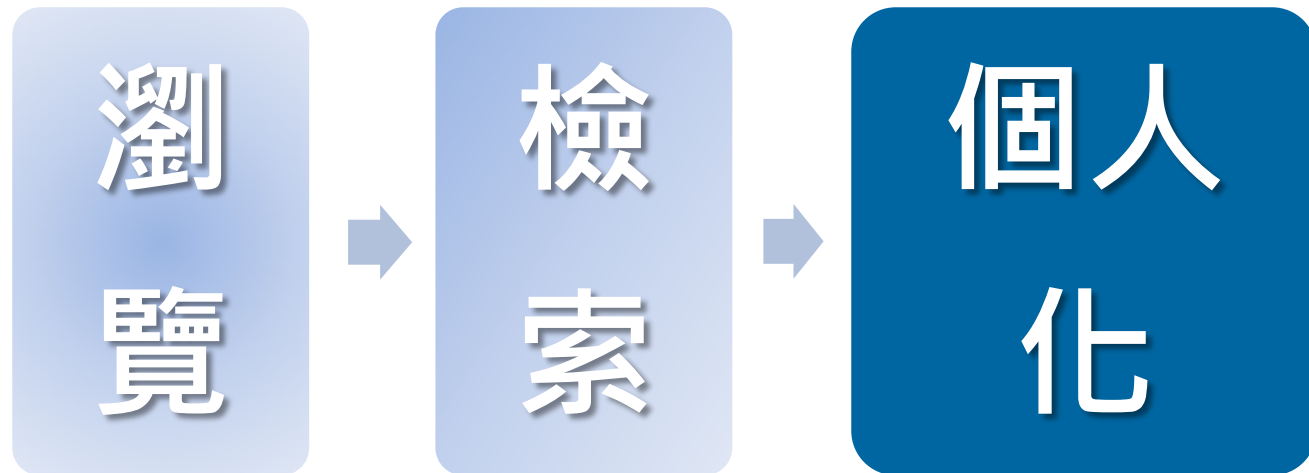
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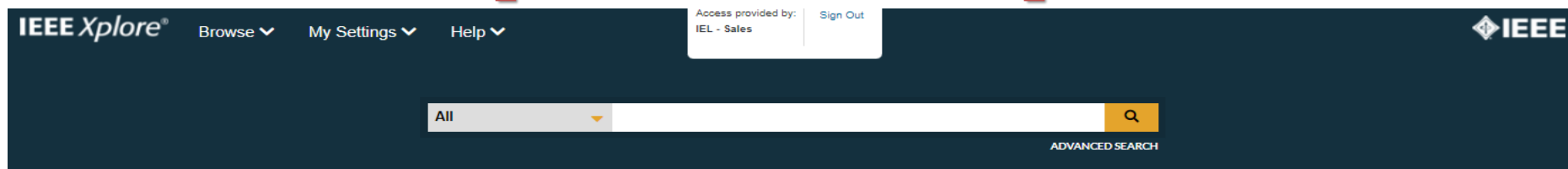
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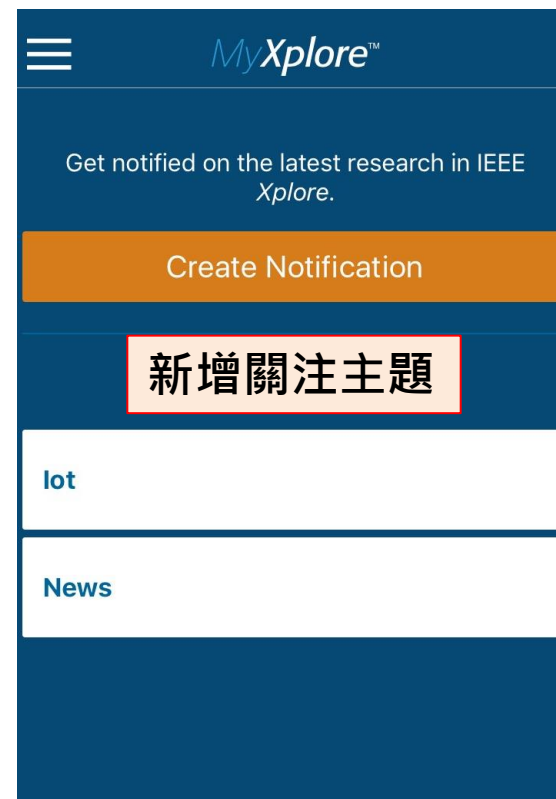
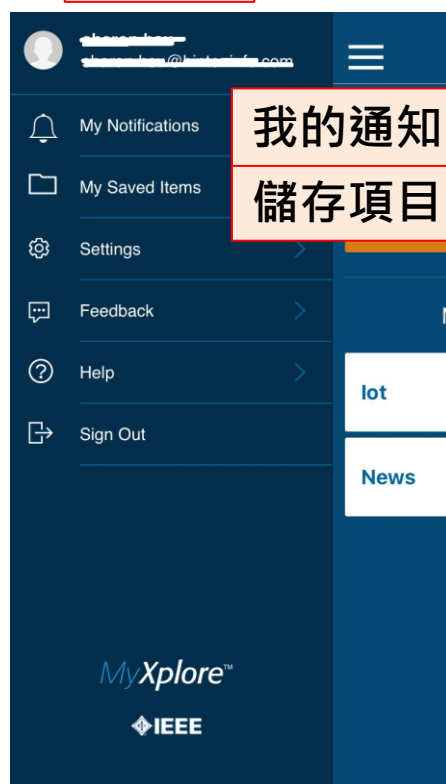
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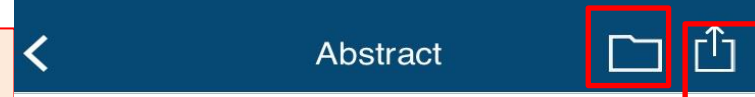
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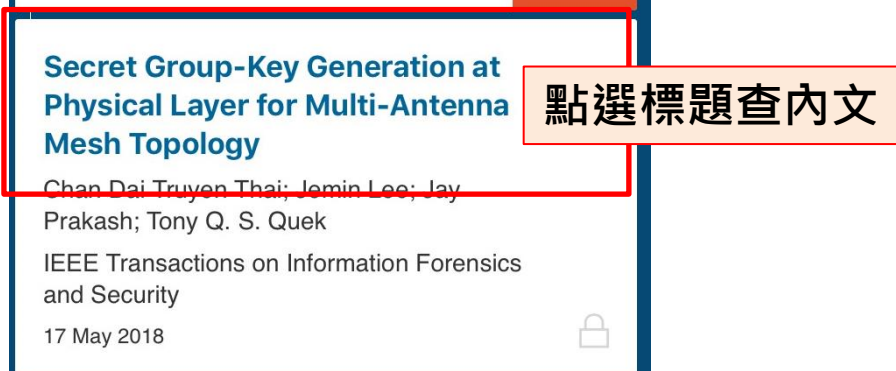
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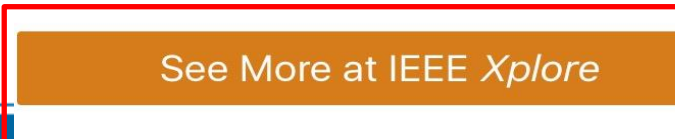
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**AUTHOR(S)**  
Jinho Choi

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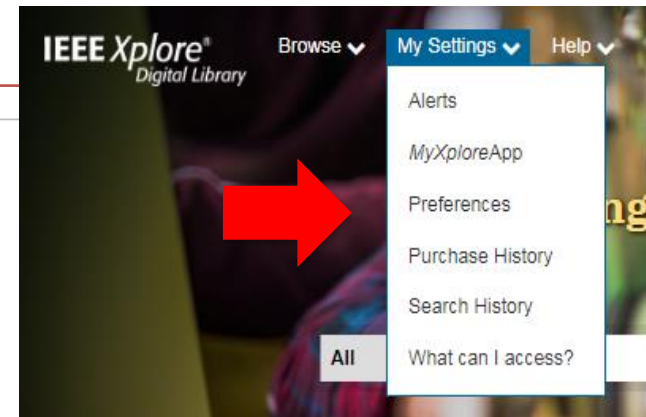
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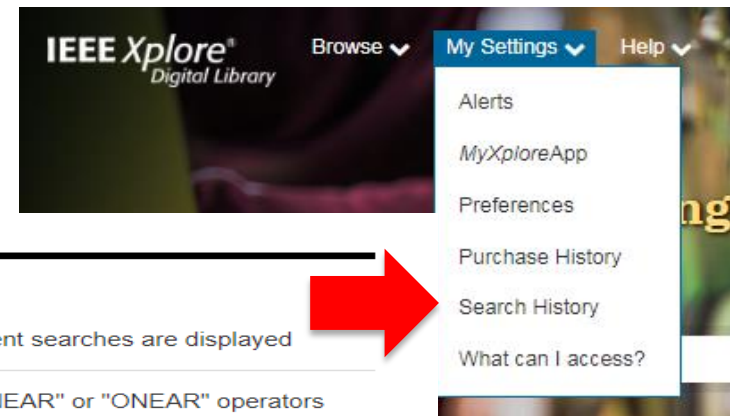


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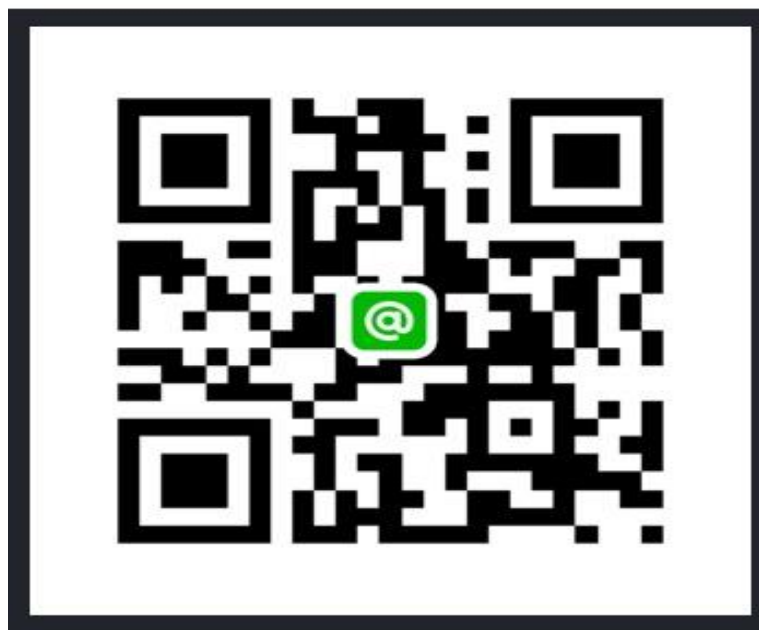


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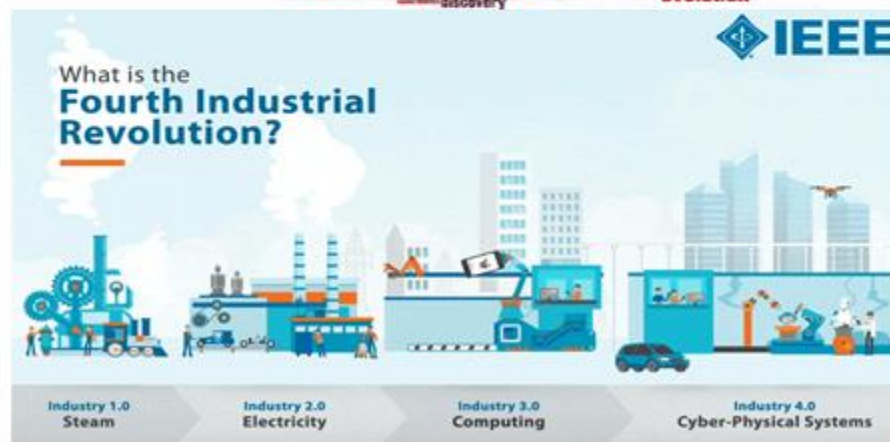
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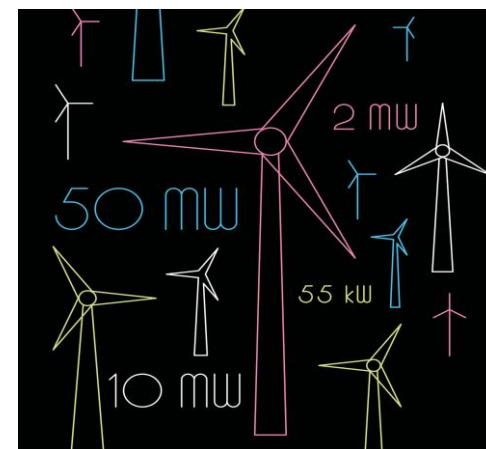
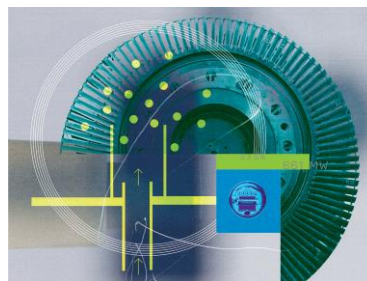


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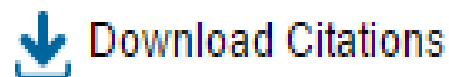
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