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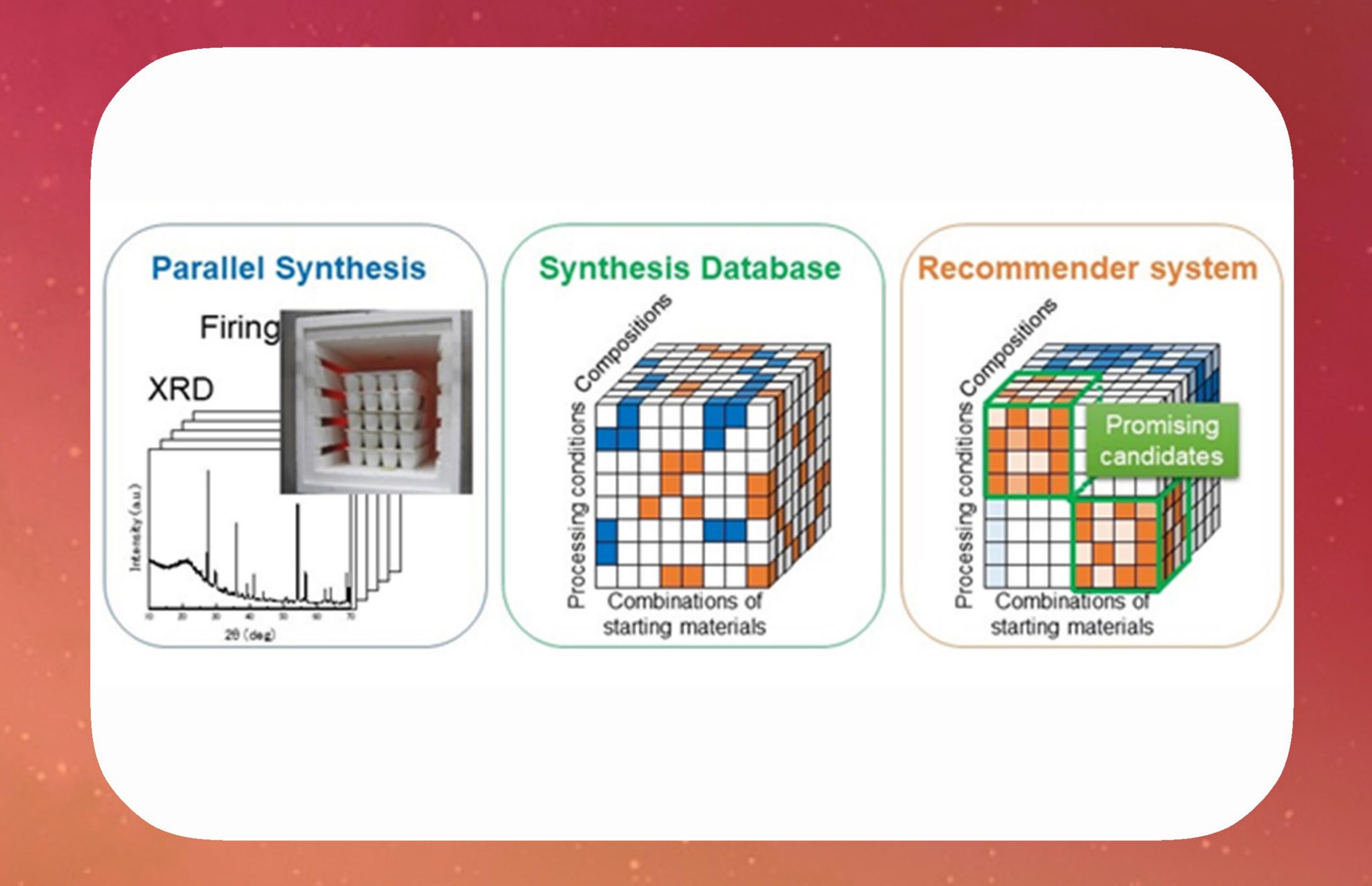
## Impacts of Data Driven Methods in Materials Science and Technology

September 11 2023, 14:00 - 15:00 (GMT +3), Gebze, TÜRKİYE



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Materials discovery often triggers technological innovations and is an exciting topic in materials research. The challenges of accelerating materials discovery using data-driven methods have been well demonstrated in recent years. One approach is to use a materials database generated by first-principles density functional theory (DFT) calculations. DFT calculations are performed in large numbers with accuracy comparable to experiments, which are used to train machine learning of materials databases. Another approach uses datasets generated by systematically parallelized experiments. Data-driven methods can be used to discover optimal process conditions for otherwise difficult-to-synthesize compounds. Such techniques will have a significant impact on materials science and technology.

Organizer: Alikram Nuhbalaoğlu (Director of TÜBİTAK TBAE)

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