

25 years of ITEA
webinar – Türkiye

Eliar Elektronik San. A.Ş.

12 May 2023 | Online
Aylin Karci



ITEA is the Eureka Cluster on software innovation



Eliar Elektronik San. A.Ş.



Company data

- Creation date: 1984
- Number of employees: ~200
- Country: Istanbul / Turkey

Expertise / main products

- Software Design & Development – Textile dyeing machine controller SW, MES level software modules, IT/OT integration, Data science
- Hardware Design & Development – PLCs and I/O modules, industrial operator panels, smart sensors
- Mechatronics - Full automated chemical and dye weighting and dispensing systems for the textile dyeing and finishing sector

Looking for

- .Finding a project idea to join
 - .Partnership to set up an idea together
- Both on industrial manufacturing

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Project idea: ABPOS

Advanced Batch Process Optimization for
Sustainability

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Sencer Sultanoğlu, Eliar Elektronik

Which problem do you want to solve?

- Batch processes are widely used in various sectors such as chemicals, pharmaceuticals, food and beverage, textiles, biotechnology, and more.
- Environmental sustainability and consumer awareness is gaining importance.
- Real-time process monitoring, data collection and storing, machine learning and anomaly detection algorithms to optimize the batch process, resulting in reduced production costs, improved resource utilization and better product quality resulting in sustainability.
- By fostering collaboration and knowledge sharing between academia, solution providers and industry, the ABPOS project will facilitate the sharing of best practices, knowledge, and novel technologies.
- We offer our expertise on textile dyeing domain and technical competence on data science for solving an use-case on textile dyeing process.

Inputs

- .Fabric
- .Dyestuff
- .Chemicals
- .Water
- .Electricity
- .Steam



Desired Output

- .Right first time dyed fabric

Waste Outputs

- .Effluent containing residual dyes, chemicals, and process additives
- .Air emissions
- .Excess dyestuff and chemicals

What are you looking for?

- **Missing partners / expertise**
 - Use-cases on batch processes focused on optimization for increasing environmental sustainability
 - Technical solution providers and universities working on use-cases

- **Partners already involved**
 - Mayteks / Turkey

Contact details

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