On the Modeling of Social Crowds: Safety and Security Problems in Europe

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The contents of the presentation is motivated by a scientific activity, busted by a participation of the Politecnico of Torino to European projects, and which looks ahead to skills that have found a receptive environment in European industries. The presentation provides an answer to the following three key questions:

• *Why a crowd is a "social, hence complex," system and how mathematical sciences can contribute to understand the "behavioral dynamics of crowds"?*

• *Which are the methods and tools to deal with the multiscale features of a crowd?*

• *How does the crowd behave in extreme situations such as panic and how models can depict them and hence support crisis managers?*

The answers to the key questions take advantage of recent research activity documented in the titles in the bibliography. These answers open to challenging modeling, analytic, and computational research perspectives.

References

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