

The background features abstract, overlapping geometric shapes in various shades of blue, primarily on the left and right sides, creating a modern, tech-oriented aesthetic.

Software Engineering Project Management

The Next 10 Years...

Current Challenges/Opportunities

- ▶ Increase in Software project complexity
- ▶ Lack of quantitative productivity metrics
- ▶ Poor testing
- ▶ Difficulty in software cost estimation
- ▶ Stricter regulations on data use
- ▶ Large number of security incidents
- ▶ Communication challenges

Some Current Trends

- ▶ Code Reuse
- ▶ Software Project Risk Management
- ▶ Agile Adaptation and Adoption
- ▶ DevSecOps
- ▶ Secure Program Development
- ▶ Low-code and No-code methods

Secure Software Development

- ▶ What is it?
- ▶ Software failures
- ▶ Data breaches
- ▶ IoT
- ▶ Government policies

References

- ▶ NIST. (N.D) Secure Software Development Framework. Available from: <https://csrc.nist.gov/Projects/ssdf> [Accessed 17 July 2023].
- ▶ Paloalto. (N.D) What is Secure SoftwareDevelopment Lifecycle (Secure SDLC). Available from: <https://www.paloaltonetworks.com/cyberpedia/what-is-secure-software-development-lifecycle> [Accessed 17 July 2023].
- ▶ Pradip, D., Mohammad, A., Bhaskar, S., Shatha, J., Laith, A., Hassan, B. (2018). Current Trends in Software Project Management. 10.2991/mshsd-17.2018.5.
- ▶ University of Essex Online. (2023) *Software Engineering Project Management: Future Trends* [Lecturecast]. SEPM_PCOM7E May 2023 Software Engineering Project Management 2023. University of Essex Online.