



UNIVERSITÀ DI PISA

STRATEGIC AND COMPETITIVE INTELLIGENCE

FILIPPO CHIARELLO

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| Anno accademico | 2020/21 |
| CdS | DATA SCIENCE AND BUSINESS INFORMATICS |
| Codice | 787II |
| CFU | 6 |

| Moduli | Settore/i | Tipo | Ore | Docente/i |
|--|------------|---------|-----|--|
| STRATEGIC AND COMPETITIVE INTELLIGENCE | ING-IND/35 | LEZIONI | 48 | FILIPPO CHIARELLO ANTONELLA MARTINI |

Programma (contenuti dell'insegnamento)

- [1] SCI FUNDAMENTALS: VUCA, Ansoff Model, surprise in business, risk & uncertainty, applications of CI, CI cycle
- [2] IP INTELLIGENCE BASICS: Patents, trademarks, copyrights, patent search engines, ecosystems & platforms
- [3] DATA SCIENCE FOR SCI PROJECTS: (1) Basics: text analysis; (2) Advanced: NIR, topic modelling, network analysis and visualization
- [4] DATA SCIENCE PROJECT DESIGN: Scoping, KITs and KIQs, metrics, management, result, visualization
- [5] SCI APPLICATION LAB: How to extract intelligence from scientific papers; How to extract intelligence from IP; How to extract intelligence from HR and other sources (i.e. Wikipedia)

Bibliografia e materiale didattico

REFERENCE BOOKS:

- For [I, II, IV] modules: McGonagle, John J., Vella, Carolyn M. (2012). *Proactice Intelligence. The Successful Executive's Guide to Intelligence*, Springer
- For [III, V] modules: Ziegler, Cai-Nicolas (2012). *Mining for Strategic Competitive Intelligence*, Springer + [Text Mining with R](#)

For each lessson, a detailed bibliography is available on the Course Plan (in SCI Teams)

Stage e tirocini

L'insegnamento beneficia della partnership con 2 stakeholder industriali:

- [ERREQUADRO Srl](#)
- [TEXTY](#)

Pagina web del corso

<https://teams.microsoft.com/team/19%3ad85fae17b2c14bd5a33109a6c231e881%40thread.tacv2/conversations?groupId=6b5ed5c6-ea75-4cd0-9464-1e4ee3b5f896&tenantId=c7456b31-a220-47f5-be52-473828670aa1>

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