

# *LAUREA MAGISTRALE IN INGEGNERIA DELLE NANOTECNOLOGIE*

*Percorso di completamento:*

*- Elettronica*

Presentazione offerta formativa a.a. 2022-2023

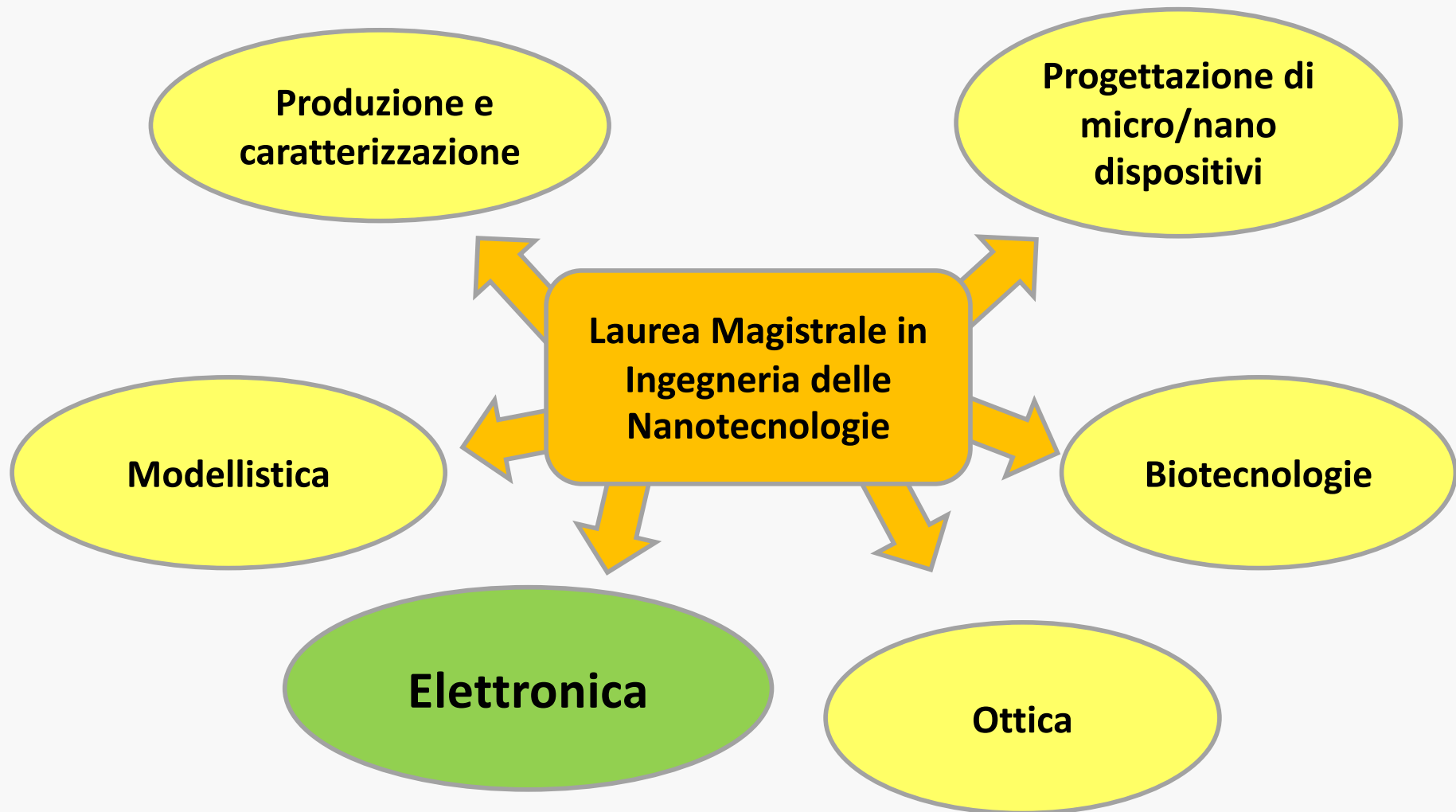
Prof. Domenico Caputo



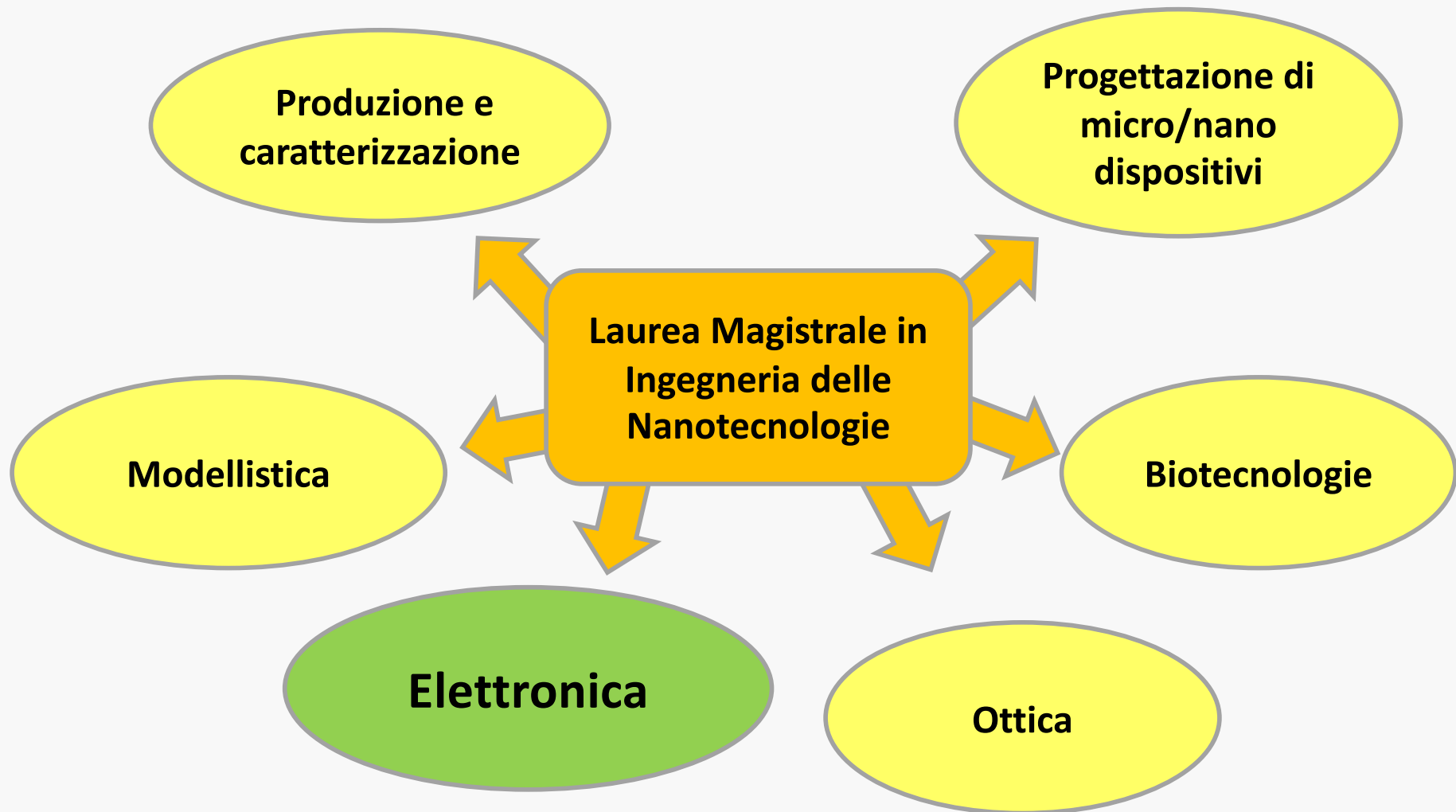
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# I 6 Percorsi di Completamento



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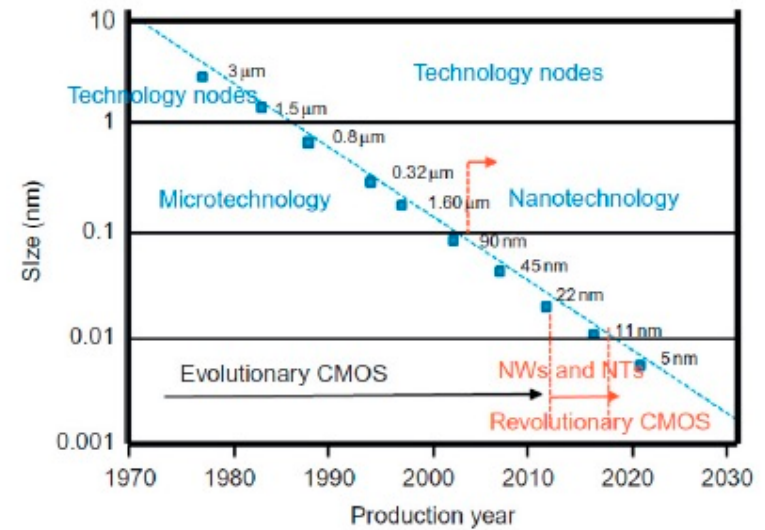
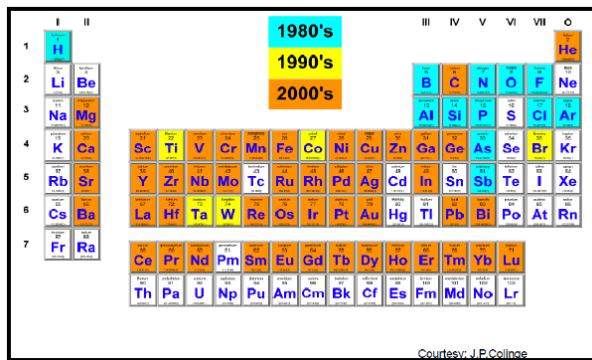


## Percorso B: Semiconductor Devices

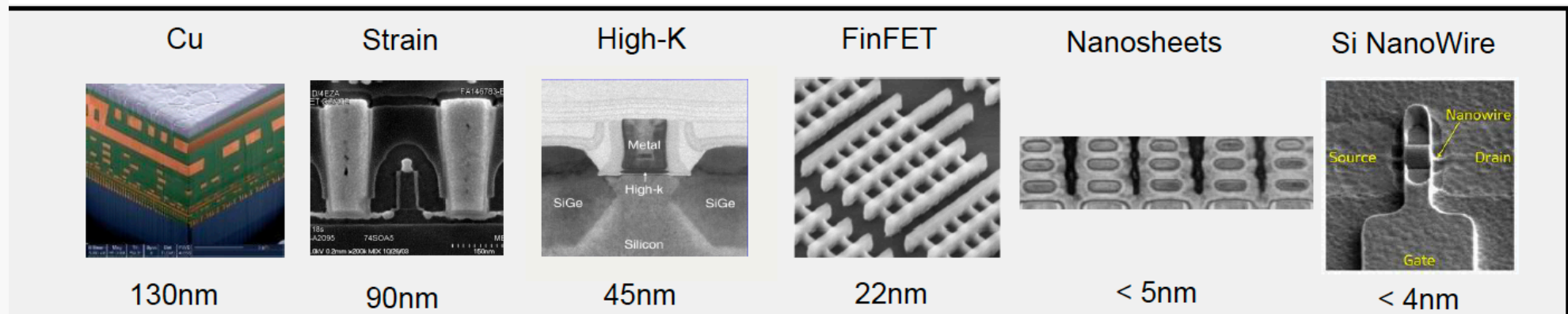


# Elettronica e nanotecnologie

Innovation in materials and architecture pushed by reaching the limit of existing solutions

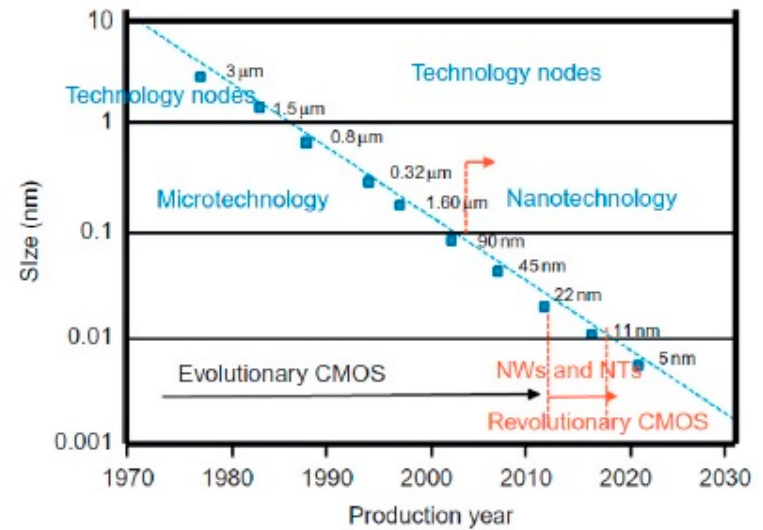
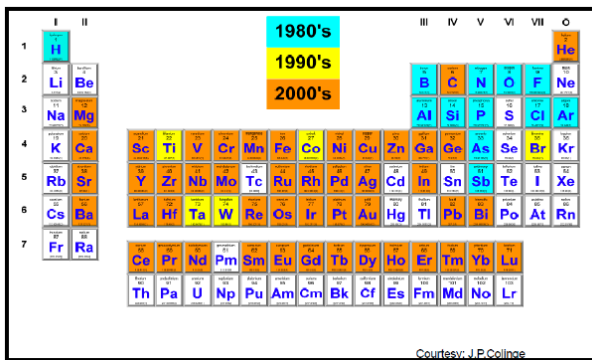


## Scaling in CMOS

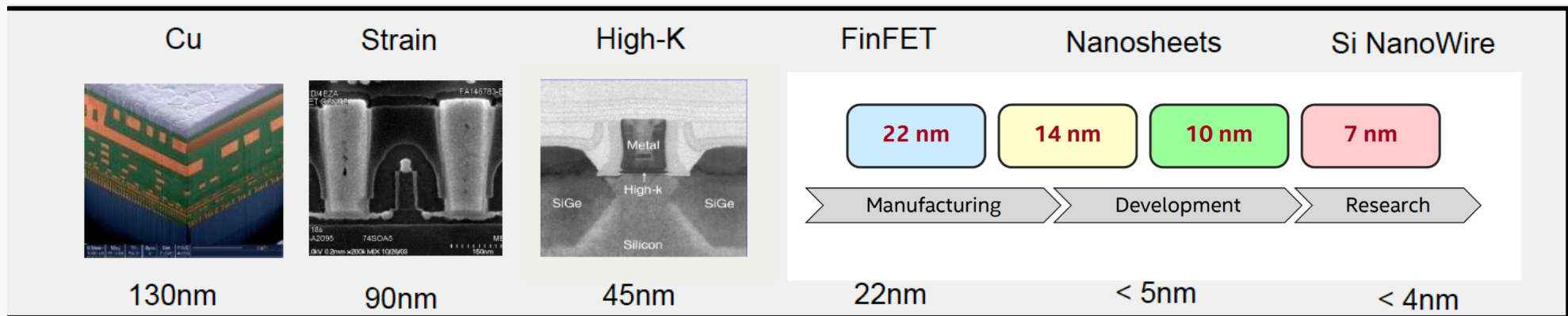


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Innovation in materials and architecture pushed by reaching the limit of existing solutions



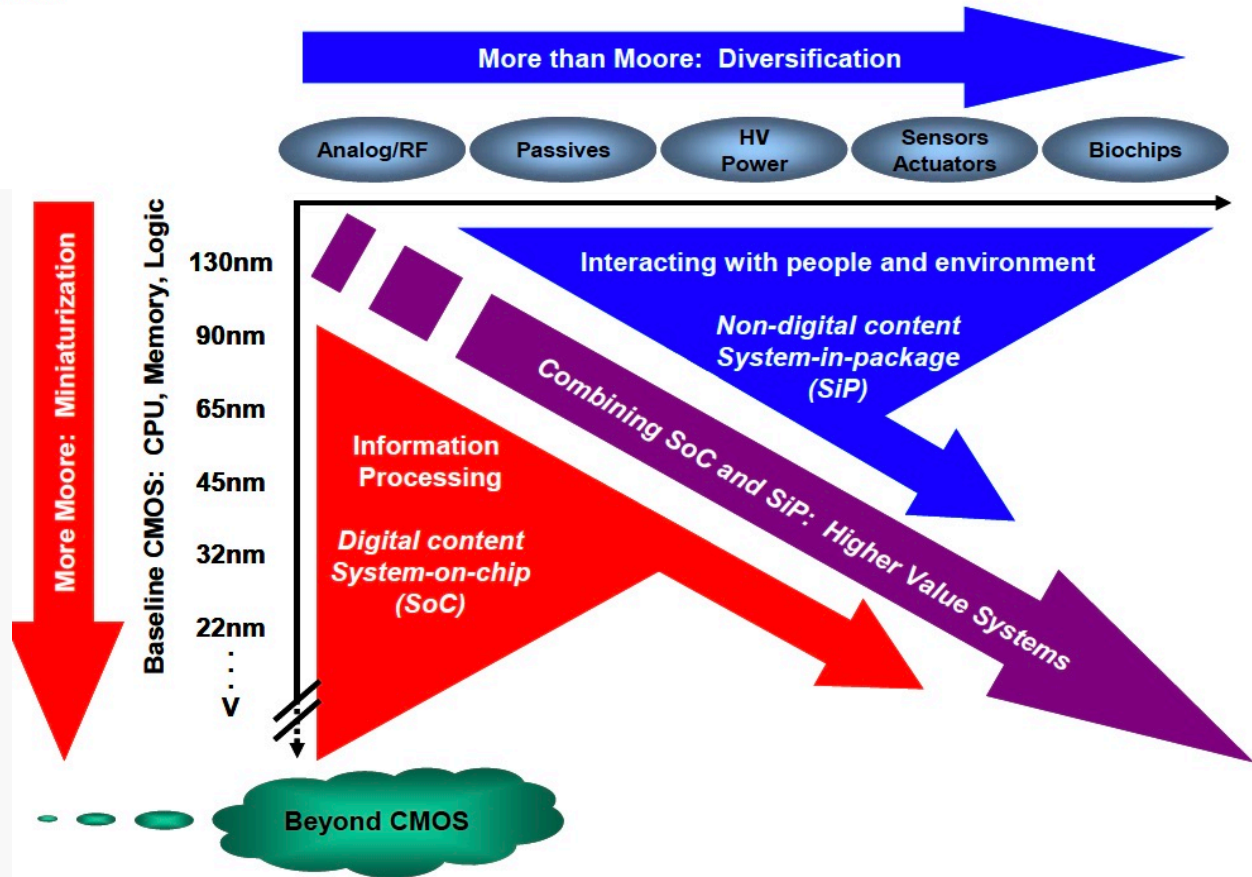
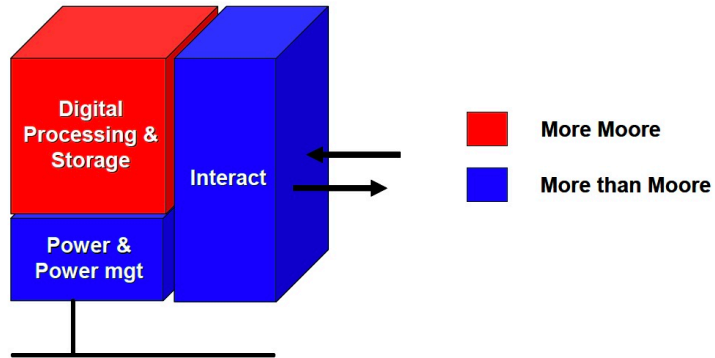
## Scaling in CMOS



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# Miniaturizzazione e diversificazione



# Esami di completamento

2 corsi di carattere  
applicativo / sperimentale



2 corsi d'indirizzo

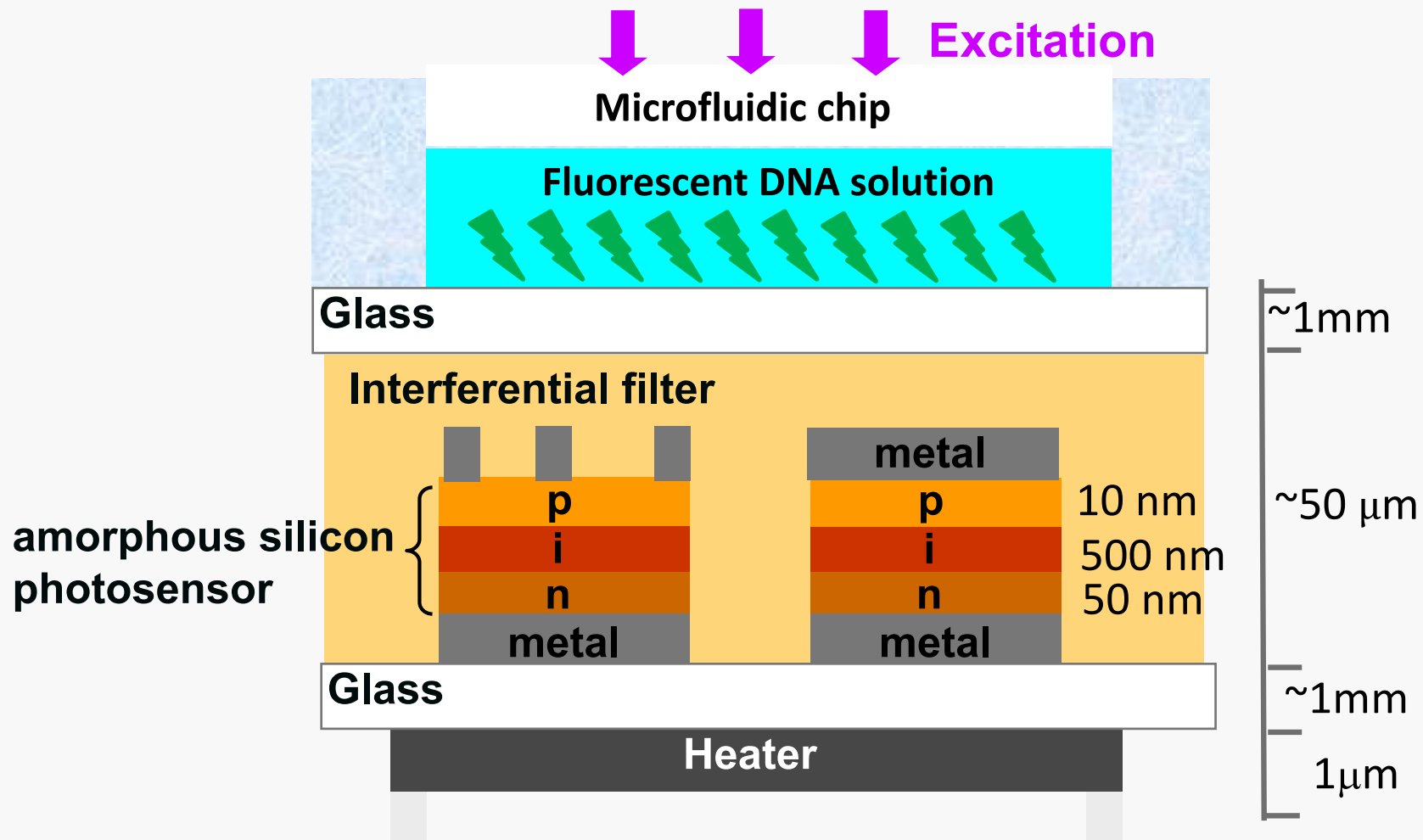
- **Elettronica:**

- **Nanoelectronics Laboratory**
- **Dispositivi Nanoelettronici di Sensing innovativi**
- **Tecnologie e Processi per l'elettronica**
- **Optoelectronics**
- **Microsistemi fotonici**
- **Electromagnetic Fields and Nanosystems for Biomedical Applications**



# Lab-on-chip for DNA amplification

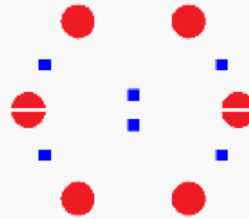
- Glass substrate integrating thin film devices for thermal treatment and fluorescence detection



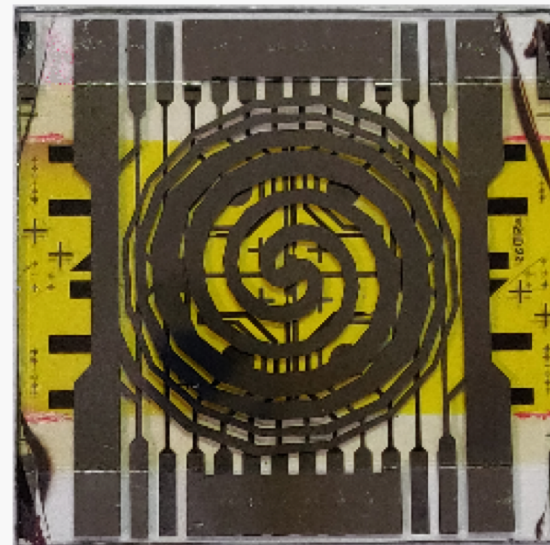
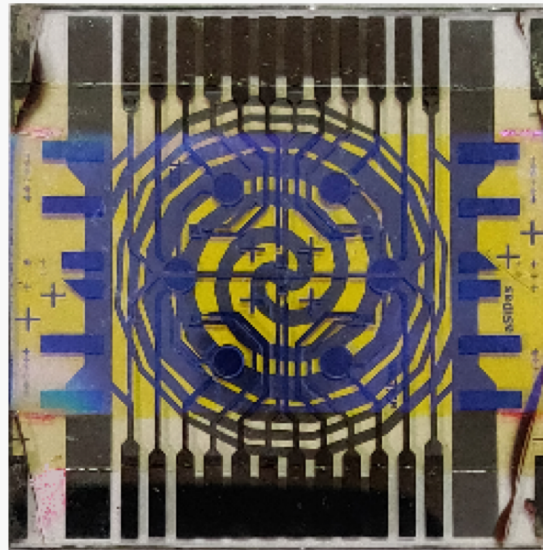
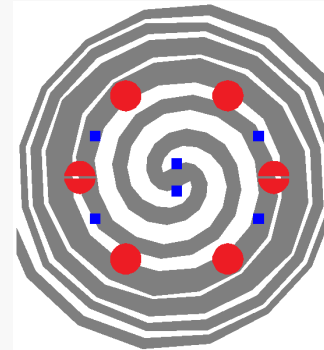


# Fabricated optoelectronic platform

- 8 Photosensors in *a-Si:H*
- 6 Temperature sensors in *a-Si:H*
- Interferential filter



Heater in *Cr-Al-Cr*



# Contatti

## Elettronica

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