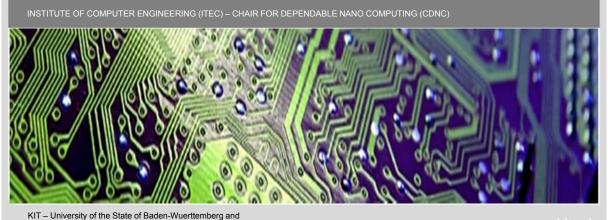
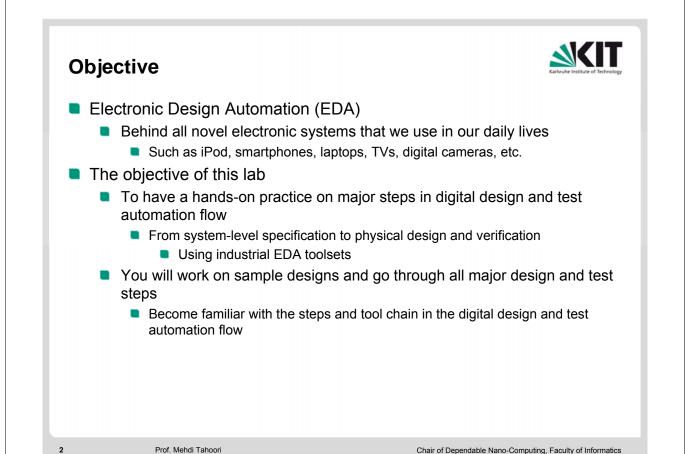


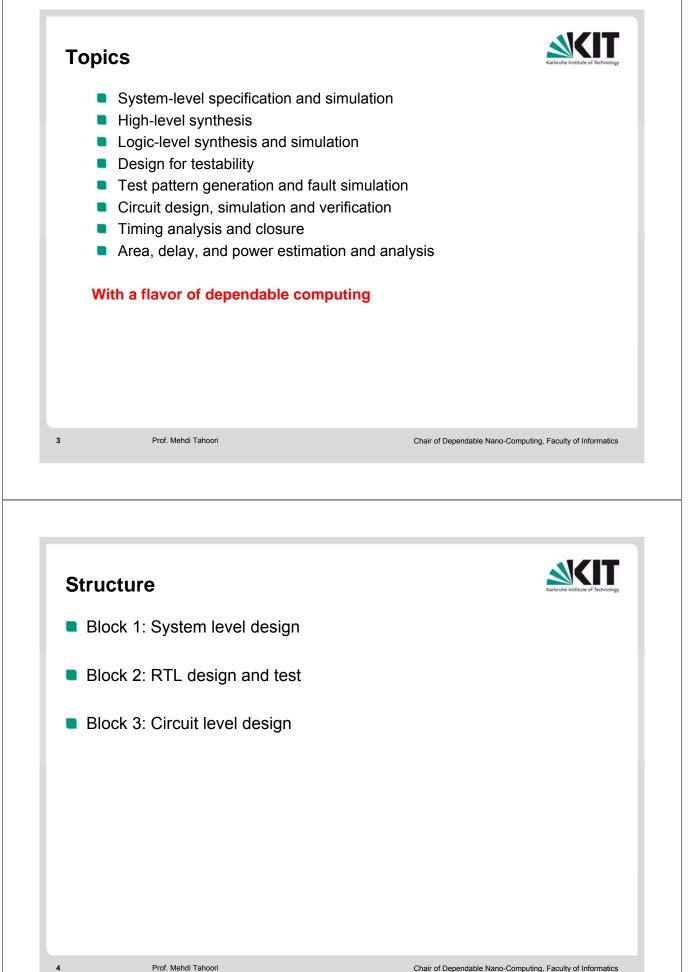
## **Digital Design and Test Automation Flow Lab** Introduction and Overview

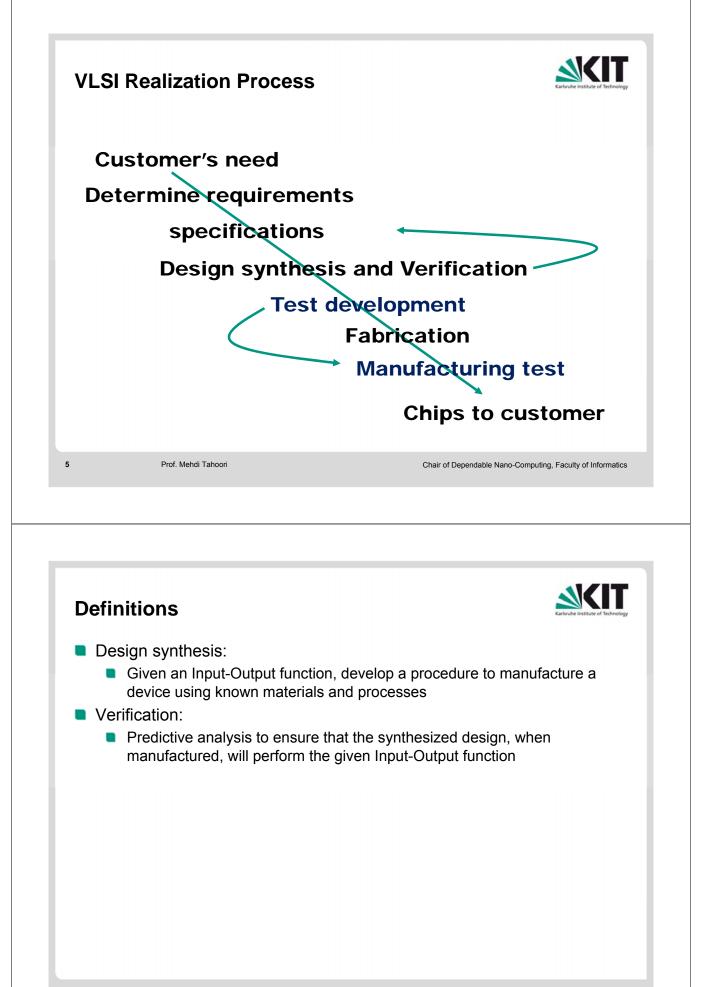
Mehdi Tahoori



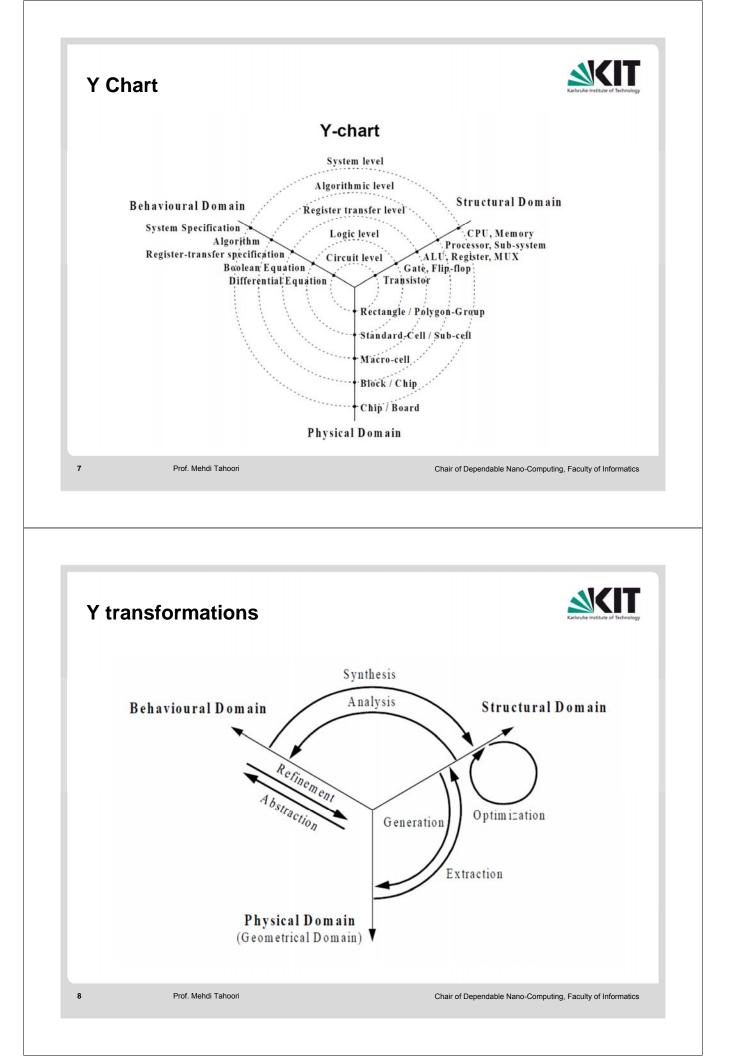
National Research Center of the Helmholtz Association

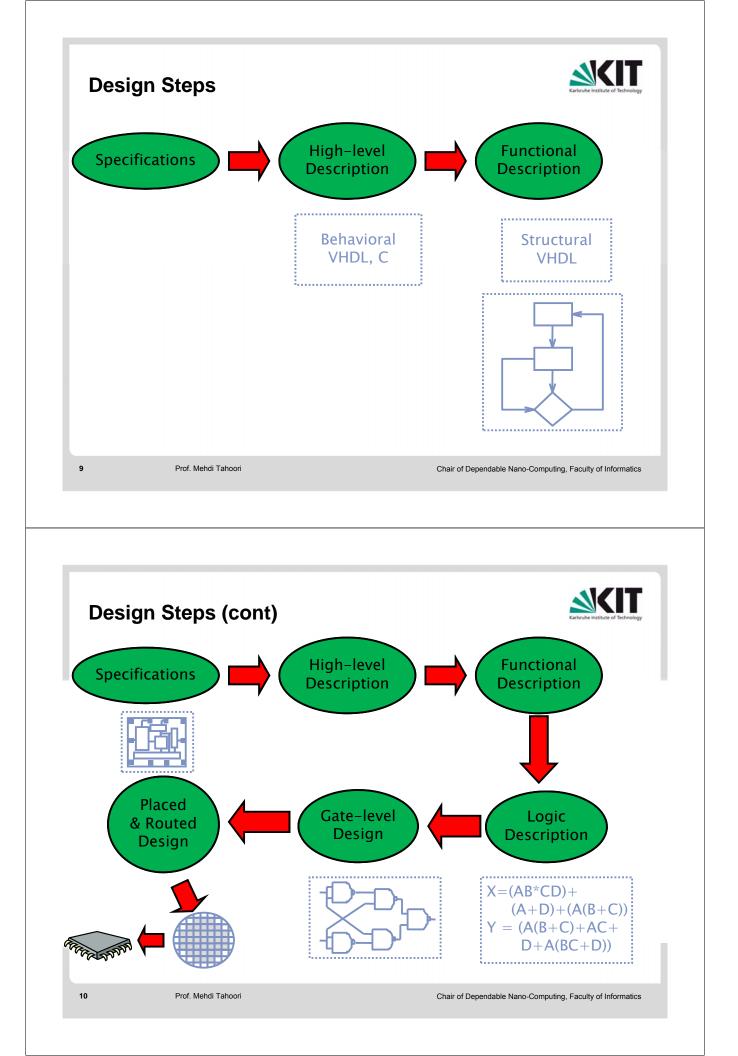


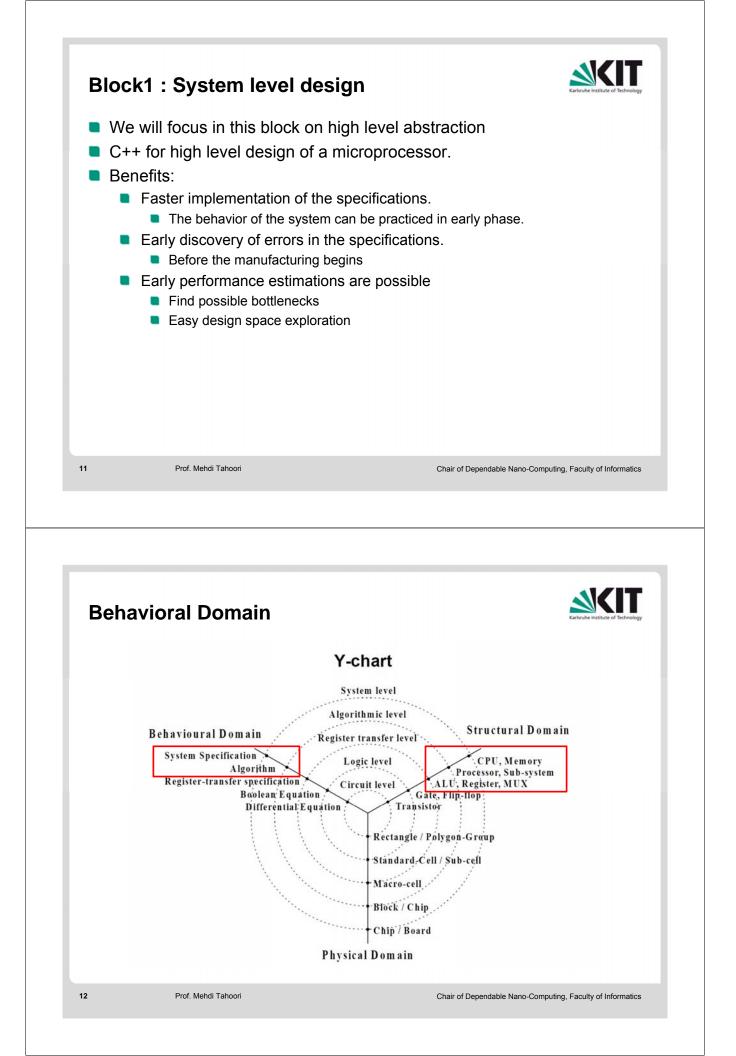


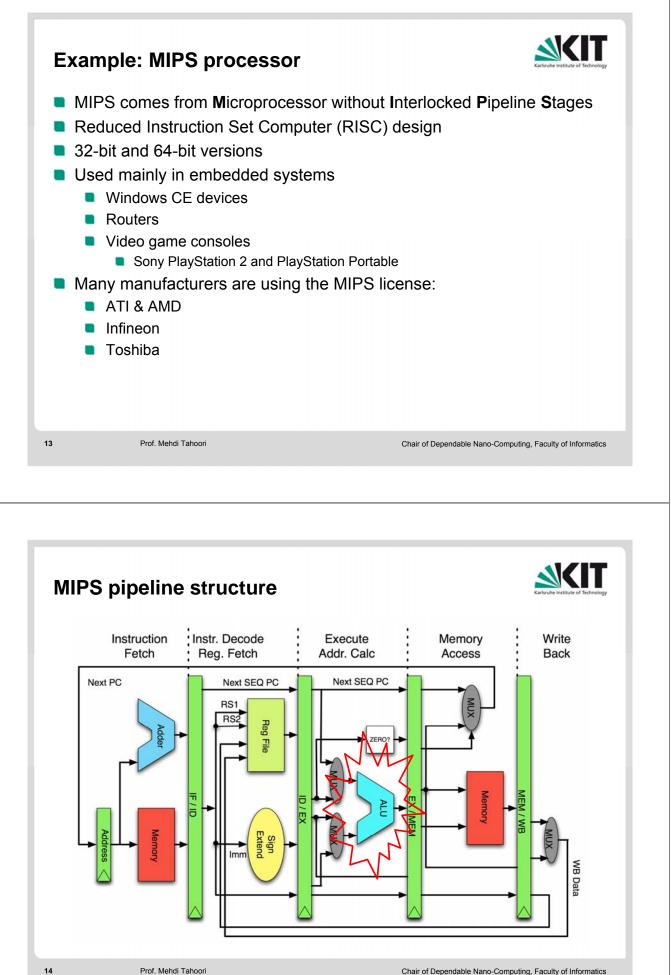


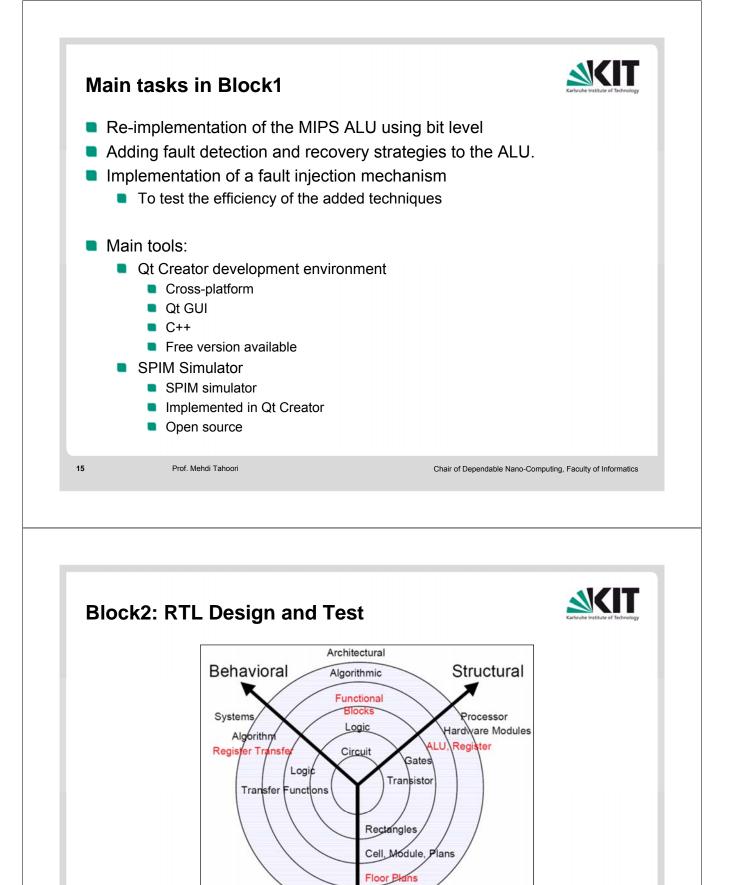
Prof. Mehdi Tahoori











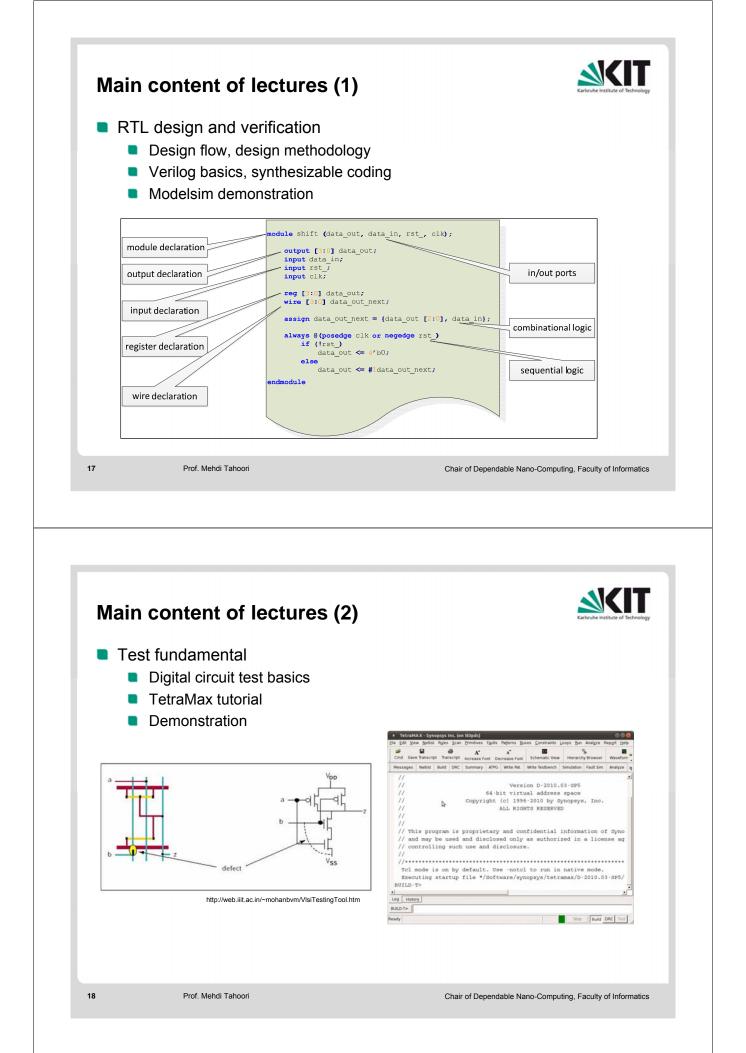
Clusters

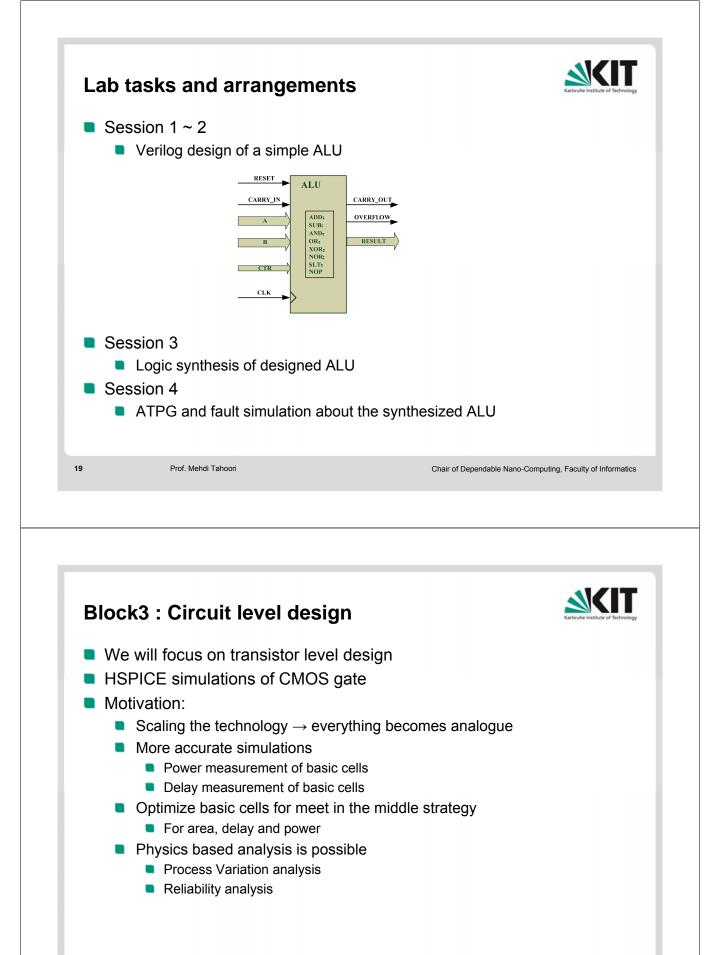
Physical/Geometry

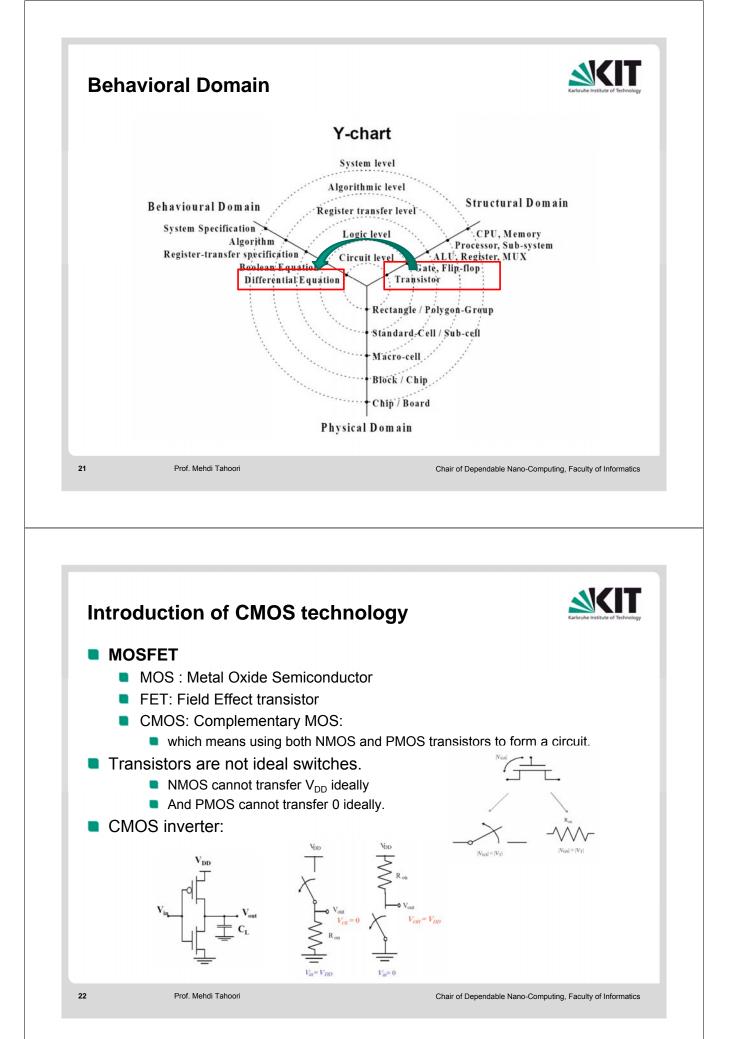
**Physical Partitions** 

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Prof. Mehdi Tahoori







| <ul> <li>Introducing the stru</li> <li>What are the cha</li> <li>How to overcome</li> </ul>             | -  |
|---|--|
| <ul><li>Design</li><li>Verify the functio</li></ul>   | logue simulator for basic cells:                                 |
| <ul> <li>DC analysis</li> <li>Transient anal</li> <li>Delay measurem</li> <li>Power measuren</li> </ul> | ient   |
| <ul> <li>Basic cells are</li> <li>Simple structures</li> </ul>  | s: NOT, NAND, NOR<br>ructures: Full Adder and Ripple Carry Adder |
| <ul><li>Main tools:</li><li>Hspice</li></ul>  |  |
|   |  |
| Dates 222   |  |
| Dates ???<br>As a block Lab (rec<br>At the end of the<br>5 full days from 1                             | semester   |
| <ul> <li>As a block Lab (rec</li> <li>At the end of the</li> </ul>                                      | semester<br>16-20 July<br>– 18:00 or                             |

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