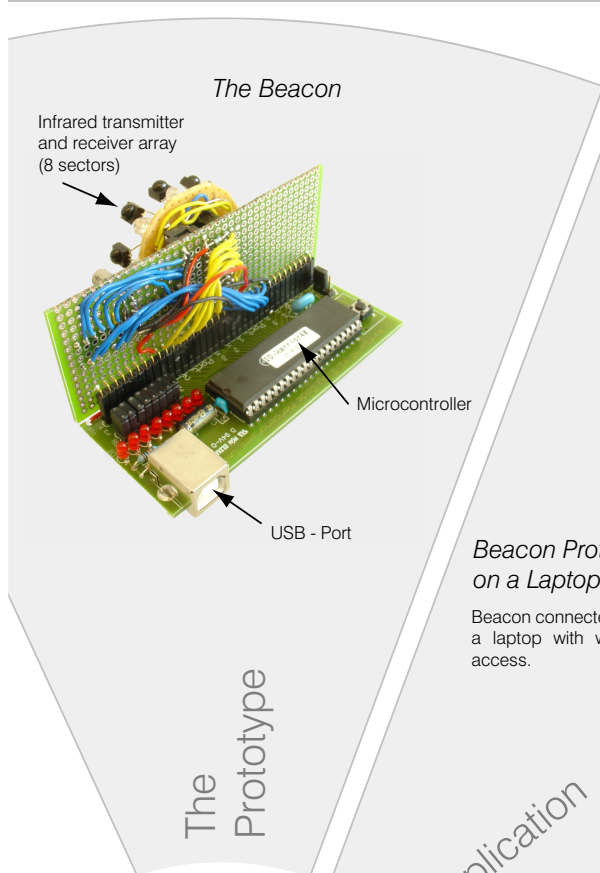


Tracking Technology for Multiple Device Interaction



Drag and Drop



Drag and drop of data from one device to another with the mouse between beacon equipped devices.

Beacon Prototype on a Laptop

Beacon connected via USB to a laptop with wireless LAN access.



Application

The Principle: Angle of Arrival

The beacons detect and transmit IR signals within sectors.

The array system has an accuracy of min $\pm 10^\circ$.

Communication

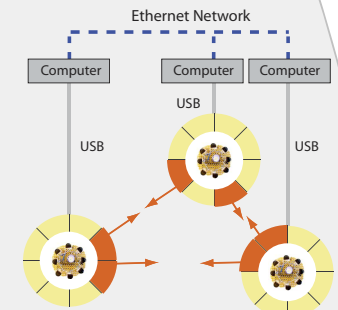
All beacons communicate via LAN.

In the future, communication should be realized via infrared, too.

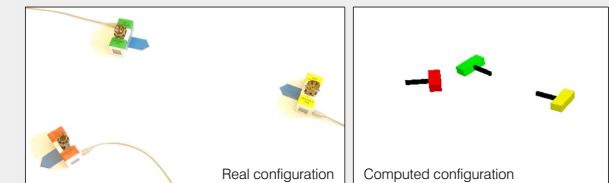
Position Determination

Sectorial position and orientation determination: If another beacon is detected in one sector, this sector is tagged.

Vectors of tagged sectors are exchanged via LAN connection.



Test Application



Left: Three beacons placed in an arbitrary position.
 Right: The computed positions and orientations of all beacons are visualized.

How it works

