Personal Agent for Non-verbal Online Communication

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- **Our proposal**
  - Agent-based online communication system
  - To communicate with the group of persons sharing similar interests or experience through **Personal Agents**

- **Applications**
  - Online education for young people
  - Social network for business cooperation. Etc.

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**Structure of System**

1. Personal agents
   - Partner agent
   - Community agent
   - User agent

2. Agent community

3. Platform

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Diagram:
- User Domain
- User A
- Reading Topic
- Attention, Focus
- Mouse movement
- Activity Record
- Internet
- User A
- User B
- User C
Personal Agents

- Each agent is a robot secretary for the user.
- When the user is accessing WebPages, his agent is studying the behavior of the user and updating the database.
- Agent can exchange the information with the virtual community and other agents.

Analyses of User actions

<table>
<thead>
<tr>
<th>Trace/Movement.Speed</th>
<th>Low</th>
<th>Normal</th>
<th>High</th>
</tr>
</thead>
<tbody>
<tr>
<td>Random</td>
<td>Idle, Less active</td>
<td>Less active</td>
<td>Look around</td>
</tr>
<tr>
<td>Following WebPages</td>
<td>Reading slowly</td>
<td>Reading with normal effort and normal confidence</td>
<td>Reading fast with confidence</td>
</tr>
<tr>
<td>Iteratively Following WebPages</td>
<td>Reading slowly with difficulty/low confidence</td>
<td>Reading with difficulty/high effort/low confidence</td>
<td>Focusing much and with effort</td>
</tr>
</tbody>
</table>